Chronic Toxicity Testing and Toxicity Identification Evaluation (TIE) of the Chevron/Cawelo Water District Effluent

Samples collected September 21, 2009, and January 11, 2010

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1. INTRODUCTION

Pacific EcoRisk (PER) has been contracted to perform NPDES compliance evaluations of the acute and chronic toxicity of Chevron USA Inc. and Cawelo Water District (Chevron/Cawelo) effluent. Testing performed on the "Inlet to Reservoir B" effluent samples that were collected on September 21, 2009, and January 11, 2010, resulted in significant reductions in survival, growth, and/or reproduction to the test organisms; the results of the initial toxicity tests that were performed with these samples are summarized below (note – TUc calculated as 100/NOEC):

September 21, 2009, "Inlet to Reservoir B" Effluent Sample

Effects of Chevron/Cawelo Effluent (Inlet to Reservoir B) on *Ceriodaphnia dubia* There were significant reductions in reproduction; the reproduction NOEC was 50% effluent, resulting in 2 TUc.

Effects of Chevron/Cawelo Effluent (Inlet to Reservoir B) on Fathead Minnows
There were significant reductions in survival; the survival NOEC was <12.5% effluent, resulting in >8 TUc.

January 11, 2010, "Inlet to Reservoir B" Effluent Sample

Effects of "Inlet to Reservoir B" Effluent on Ceriodaphnia dubia

There were significant reductions in reproduction; the reproduction NOEC was 75% effluent, resulting in 1.3 TUc.

Effects of "Inlet to Reservoir B" Effluent on Fathead Minnows

There were significant reductions in survival; the survival NOEC was 25% effluent, resulting in 4 TUc. There were further significant reductions in growth; the growth NOEC was 12.5% effluent, resulting in 8 TUc.

In response to these observations of significant toxicity, Toxicity Identification Evaluations (TIEs) were performed. Due to the low magnitude of the toxicity of the 1/11/10 effluent sample to $C.\ dubia$, the TIE of this sample was limited to the fathead minnows.

This report describes the performance and results of these tests.

2. TOXICITY TEST AND TIE PROCEDURES

The methods used in conducting the standard chronic toxicity tests followed EPA testing manual "Short-Term Methods for Estimating the Chronic Effects of Effluents and Receiving Waters to Freshwater Organisms, Fourth Edition" (EPA-821-R-02-013).

The methods used in performing the Phase I and Phase II TIE treatments followed the guidelines established by the following EPA manuals:

- Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures. EPA-600/6-91/003 (Second Edition). U.S. EPA, Environmental Research Laboratory, Duluth, MN;
- Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluent, Phase I. EPA-600-6-91-005F. U.S. EPA, Environmental Research Laboratory, Duluth, MN;
- Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity. EPA-600/R-92/080. U.S. EPA, Environmental Research Laboratory, Duluth, MN;
- Toxicity Reduction Evaluation Protocol for Municipal Wastewater Treatment Plants. EPA-600/2-88/062 1989. U.S. EPA, Risk Reduction Engineering Laboratory, Cincinnati, OH;
- Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations (TREs). EPA-600/2-88/070 1989. U.S. EPA, Risk Reduction Engineering Laboratory, Cincinnati, OH.

2.1 Sample Receipt and Handling

On September 21 (2009) and January 10 (2010), Precision Analytical staff collected samples of "Inlet to Reservoir B" effluent into appropriately cleaned sample containers. These samples were transported on the day of collection, on ice and under chain-of-custody, to the PER laboratory in Fairfield. Upon receipt at the testing laboratory, aliquots of the sample were collected for analysis of initial water quality characteristics (Table 1), with the remainder of the samples being stored at 0-6°C except when being used to prepare test solutions. The chain-of-custody records for the collection and delivery of these samples are provided in Appendix A.

Table 1.	Table 1. Initial water quality characteristics of the 'Inlet to Reservoir B' effluent samples.							
Sample Collection Date	Temp (°C)	pН	D.O. (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Conductivity (µS/cm)	Total Ammonia (mg/L N)	
9/21/09	10.7	6.85	4.8	198	76	794	<1.0	
1/11/10	1.1	6.77	4.6	210	88	807	<1.0	

2.2 Survival and Reproduction Toxicity Testing with Ceriodaphnia dubia

The short-term chronic *C. dubia* test consists of exposing individual females to effluent for the length of time it takes for the Lab Control treatment females to produce 3 broods (typically 6-8 days), after which effects on survival and reproduction are evaluated. The specific procedures used in this test are described below.

The Lab Water Control treatment for these tests consisted of a mixture of Type 1 lab water (reverse-osmosis, de-ionized water) with a commercial spring water (Perrier®). The Lab Water and the effluent sample (and TIE treated effluent samples) were used to prepare test solutions at the 50% and 100% effluent concentrations. For each treatment, ~150 mL of test solution was amended with the alga Selenastrum capricornutum and Yeast-Cerophyll®-Trout Food (YCT) to provide food for the test organisms. "New" water quality characteristics (pH, D.O., and conductivity) were measured on these food-amended test solutions prior to use in this test. Every other day of the tests, fresh test solutions and a "new" set of replicate cups were prepared and characterized, as before.

There were 5 replicates for each test treatment, each replicate consisting of 15 mL of test solution in a 30-mL plastic cup. These "3-brood" tests were initiated by allocating one neonate (<24 hrs old) *Ceriodaphnia*, obtained from ongoing laboratory cultures, into each replicate. The replicate cups were placed into a temperature-controlled room at 25°C, under cool-white fluorescent lighting on a 16L:8D photoperiod.

Each test replicate cup was examined every other day, with surviving "original" individual organisms being transferred to the corresponding new cup containing fresh test solution. The contents of each remaining "old" replicate cup were carefully examined, and the number of neonate offspring produced by each original organism was determined, after which "old" water quality characteristics (pH, D.O., and conductivity) were measured for the old media from one randomly-selected replicate at each treatment.

After it was determined that $\geq 60\%$ of the *C. dubia* in the Lab Water Control treatment had produced their third brood of offspring, the accompanying tests were terminated. The resulting survival and reproduction (number of offspring) data were analyzed to evaluate any impairment(s) caused by the effluent; all statistical analyses were performed using the CETIS® statistical software.

2.3 Survival and Growth Toxicity Testing with Larval Fathead Minnows

The chronic fathead minnow test consists of exposing larval fish to effluent for 7 days, after which effects on survival and growth are evaluated. The specific procedures used in this test are described below.

The Lab Water Control treatment for this test consisted of US EPA synthetic moderately-hard water. The Lab Water and the effluent sample (and the TIE treated effluent samples) were used to prepare daily test solutions at the 50% and 100% effluent concentrations. "New" water quality characteristics (pH, D.O., and conductivity) were measured on these test solutions prior to use in this testing.

There were 2-3 replicates at each test treatment, each replicate consisting of 400 mL of test media in a 600-mL glass beaker. This test was initiated by randomly allocating 10 larval fathead minnows (<48 hrs old) into each replicate. The replicate beakers were placed in a temperature-controlled room at 25°C, under cool-white fluorescent lighting on a 16L:8D photoperiod. The test fish were fed brine shrimp nauplii daily.

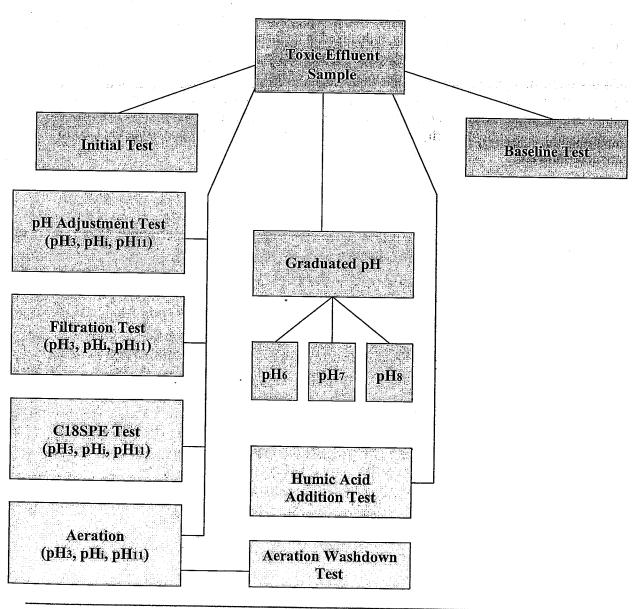
Each replicate was examined daily, with any dead animals, uneaten food, wastes, and other detritus being removed. The number of live fish in each replicate was determined and then approximately 80% of the test media in each beaker was carefully poured out and replaced with fresh test solution. "Old" water quality characteristics (pH, D.O., and conductivity) were measured on the old test water that had been discarded from one randomly-selected replicate at each treatment.

After 7 days exposure, the number of live fish in each replicate beaker was recorded. The fish from each replicate were then carefully euthanized in methanol, rinsed in de-ionized water, and transferred to a pre-dried and pre-tared weighing pan. These fish were then dried at 100°C for >24 hrs and re-weighed to determine the total weight of fish in each replicate; the total weight was then divided by the initial number of fish per replicate (n=10) to determine the "biomass value". The resulting survival and growth ("biomass value") data were analyzed to evaluate any impairment(s) caused by the effluent; all statistical analyses were performed using the CETIS® statistical software.

2.4 Phase I TIE Testing Procedures

The goal of the Phase I TIE is to determine the class of compounds (organics, metals, ammonia, etc.) responsible for effluent toxicity. This is achieved by performing physical and chemical manipulations on the effluent samples. The observed changes in effluent toxicity that result from these manipulations provide clues as to the nature of toxicity. As per consultation with Chevron staff, and based upon the observation of significant toxicity to fathead minnows being removed by the C18 treatment of the 9/21/09 effluent sample, the Phase I TIE of the 1/11/10 effluent sample was "targeted" towards the C18 treatment, and included the Graduated pH (pH6, pH7, and pH8 treatments) to evaluate possible pH lability of any organic toxicants.

Figure 1: Phase I Toxicity Identification Evaluation Fractionation Procedures



2.4.1 TIE Treatment Method Blanks

As part of the TIE process, a method blank is utilized for each TIE treatment to determine whether any of the treatment procedures contribute any artifactual toxicity to the manipulated sample. The treatment method blanks for this test consisted of aliquots of the Lab Control water (for each species) that were subjected to each of the test treatments discussed below.

2.4.2 Baseline Testing

The Baseline toxicity test is performed concurrently with the TIE fractionation tests, and consists of a test of the untreated effluent sample to assess toxicity at the time of the performance of the TIE, and to serve as a reference benchmark against which toxicity removal by the other TIE treatments can be assessed. The physical chemical nature of the compound(s) responsible for the observed toxicity can be determined by the pattern of toxicity removal by the TIE treatments relative to the Baseline test.

2.4.3 pH Adjustment Treatments

Separate aliquots of the effluent sample were adjusted to pH3 and pH11, manipulations that can affect the solubility, polarity, volatility, stability and speciation of potentially toxic compound(s). The sample pH was decreased to pH3 or increased to pH11 by adding reagent grade HCI or NaOH to the test sample. An aliquot of each pH-adjusted effluent sample was immediately poured off and set aside for assessment of the pH adjustment treatment itself, with the remainder of each sample being allowed to sit for 1 hr until used in subsequent filtration, C18SPE, and aeration treatment manipulations. At the end of the day, all pH-manipulated samples were readjusted to the initial Baseline pH (pHi) of the sample. The pH-adjusted effluent samples and all appropriate method blanks were then tested to determine if changes in effluent toxicity had occurred as a result of the pH-adjustment manipulation.

2.4.4 Filtration Treatment

Filtration of the effluent sample can affect sample toxicity through the removal of toxicants associated with suspended particulates or other filterable material. In addition, some contaminants can sorb to the filter membrane. This treatment also determines the effects of pH adjustment in combination with filtration: by filtering pH-adjusted aliquots of effluent, compounds typically in solution at pH_i but which are insoluble or associated with particles to a greater extent at more extreme pH's are removed. Aliquots of effluent and method blank samples at pH3, pHi, and pH11 were filtered through either a $0.45~\mu m$ or $1~\mu m$ filter membrane. At the end of the day, all pH-manipulated samples were re-adjusted back to pHi. The manipulated effluent samples and all appropriate method blanks were then tested to determine if changes in effluent toxicity had occurred as a result of filtration.

2.4.5 C18 Solid Phase Extraction (SPE) Treatment

The C18SPE test is used to identify effluent toxicity that is due to compounds that are removed or sorbed onto chromatographic resin (i.e., C18 columns) specific for non-polar organic compounds. This treatment also determines the effects of pH adjustment and filtration in

combination with C18SPE extraction: at pH3 and pH9, organic bases and acids, respectively, can be made more or less polar by shifting the equilibrium between the ionized vs. un-ionized species, affecting their affinity for the C18 sorbant. Prior to passage over the C18SPE column, the preliminary aliquots of filtered pH11 effluent sample and method blank were re-adjusted to pH9 (C18 column degradation will occur at >pH9). Appropriate aliquots of pH3, pHi, and pH9 effluent sample at were passed over a C18 columns. The first 25 mL of solution that passed through each column was discarded, after which the remaining C18SPE treated samples were collected. At the end of the day, all pH-manipulated samples were re-adjusted back to pHi. The manipulated effluent samples and all appropriate method blanks were then tested to determine if changes in effluent toxicity had occurred as a result of C18SPE.

Upon completion of the Phase I TIE C18SPE treatment, the C18 columns were frozen for potential follow-up Phase II TIE work.

2.4.6 Aeration Treatment

This TIE fractionation is designed to determine the extent of effluent toxicity that can be attributed to volatile, sublatable, or oxidizable compounds. This treatment also determines the effects of pH adjustment in combination with aeration (some compounds can be removed or oxidized more easily under acidic or basic conditions). Aliquots of pH3, pHi, and pH11 effluent were aerated in graduated cylinders under a ventilation hood for 1 hr. After this aeration period, the aerated effluent samples were carefully siphoned off into glass beakers to ensure that any compounds deposited on the aeration glassware via sublation (e.g., foam) were not introduced back into the sample. At the end of the day, all pH-manipulated samples were re-adjusted back to pHi. The aeration-treated effluent samples and all appropriate method blanks were then tested to determine if changes in effluent toxicity had occurred as a result of aeration.

2.4.7 Aeration Washdown Treatment

This treatment is intended to determine if compounds isolated during the aeration treatment can be used to recover toxicity. While the aeration procedure is underway, it was noted that the pH 11 aeration treatment had the most foam and deposits on the glass graduated cylinder. After the effluent was siphoned out of the cylinder, the cylinder was rinsed with control water to remove any compounds on the walls, and the rinsate was then diluted back up the 1X sample volume control water. The aeration-washdown media was then tested to determine if any toxicity that might have been removed by the aeration treatment could be recovered in the washdown media.

2.4.8 Graduated pH Adjustment Treatment

The graduated pH tests are performed to determine whether effluent toxicity is caused by compounds whose toxicity is pH-dependent. For example ammonia, which is common in many effluents, is generally much less toxic in its ionized form (NH₄⁺, the dominant form at lower pH levels) relative to its un-ionized form (NH₃, the dominant form at higher pH levels). In addition, pH differences can also affect metal toxicity through changes in solubility and speciation.

The effluent sample pH is adjusted to pH6, pH7, and pH8 by adding reagent grade HCI and/or NaOH to the test sample until the pH reading is ± 0.1 pH units of the target pH. Throughout the day, all samples are readjusted to the target pH. The pH-adjusted effluent solutions and method blanks were then tested to determine if changes in effluent toxicity occurred as a result of the increase or decrease in pH relative to the Baseline (initial) conditions.

2.4.9 Piperonyl Butoxide (PBO) Treatment

The PBO treatment is used to identify contaminants whose toxicity is mediated by the Cytochrome P-450 (Cyp450) enzyme system. PBO inactivates this enzyme system, so that the toxicity of contaminants whose toxicity would have been removed by Cyp450 is increased (e.g., pyrethroid pesticides, etc.), whereas the toxicity of contaminants whose toxicity would have been increased by Cyp450 is reduced (e.g., OP pesticides [such as chlorpyrifos], etc.). To prepare the PBO treatments, aliquots of the effluent were spiked with PBO at concentrations of $25 \mu g/L$ and $100 \mu g/L$. The PBO-treated solutions and method blanks were then tested to determine if changes in effluent toxicity occurred as a result of the PBO addition.

2.4.10 Humic Acid Treatment

This fractionation treatment is designed to characterize effluent toxicity caused by materials that will sorb to dissolved organic carbon. The addition of humic acid to the sample can produce non-toxic complexes (via chelation or sorption) with potentially toxic compounds. Aliquots of the effluent were spiked with humic acid at two test concentrations: 20 mg/L and 40 mg/L. After mechanical mixing for 1 hr, the samples were stored in the dark at 4°C until used for test initiation the following day. The treated effluent samples and corresponding method blanks were then tested to determine if changes in effluent toxicity had occurred as a result of humic acid addition.

2.5 Phase II TIE Testing Procedures - Toxicity Recovery in the C18SPE Eluate

The goal of the Phase II TIE is to identify specific contaminants responsible for effluent toxicity. As per consultation with Chevron staff, this Phase II TIE was targeted towards identification of contaminants adsorbed to the C18SPE columns that had removed significant amounts of the toxicity present in the effluent samples.

Upon completion of the Phase I TIE C18SPE treatment, the C18 columns had been frozen for potential follow-up Phase II TIE work. A sub-set of these frozen columns was removed from the freezer and thawed out to room temperature. The C18 columns were then eluted and the eluate was tested for recovery of the initially-observed toxicity.

2.5.1 Initial Evaluation of Toxicity Recovery in the C18SPE Eluate

The C18 columns were eluted with 100% methanol and the eluate was collected and diluted back up to the 1X effluent concentration for toxicity testing. Method blank columns were similarly eluted. $C.\ dubia$ and fathead minnows were tested at the 50% (= 0.5X) and 100% (= 1X) effluent

concentrations. Additional aliquots of the effluent were tested to provide a Baseline treatment.

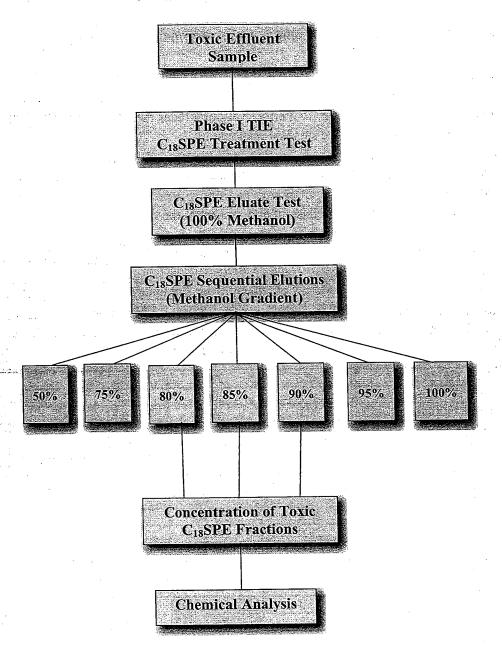
2.5.2 Evaluation of Toxicity Recovery by Sequential C18 Elutions

Because there are a large number of organic compounds present in typical refinery and/or municipal wastewater, the Phase II TIE process was intended to separate the toxic components from the non-toxic components, thus simplifying, or "cleaning up", the sample matrix and allowing for the identification of the compound(s) responsible for toxicity in the effluent. The Phase II TIE procedures included the sequential elution of C18SPE columns over a methanol gradient of 50-100% methanol, identification of toxic eluate fractions, compositing and back-concentration of toxic fractions and re-elution into 100% methanol in preparation for subsequent chemical analyses (e.g., Gas Chromatography/Mass Spectrometry (GC/MS)).

A set of the remaining frozen C18 columns were thawed to room temperature and eluted sequentially with 2 mL of each of seven methanol concentrations (50, 75, 80, 85, 90, 95, and 100%). The eluate of each methanol concentration was diluted in control water to make stock solutions of 4X effluent concentration and used for testing on *C. dubia* and fathead minnows at the 1X, 2X, and 4X concentrations. Sequential elutions were similarly performed on the method blank columns. Additional aliquots of the effluent were tested to provide a Baseline treatment.

The remaining eluate of each methanol concentration was kept refrigerated for the duration of the test. After recovery of toxicity was observed in the 80%, 85%, and 90% eluate solutions, the 80%, 85%, and 90% eluate concentrations and their corresponding blanks were shipped on ice to Dr. Cliff Lange at Auburn University for chemical analysis of selected volatile organic compounds, naphthenic acids, naphthalenes, phenolics, alkanes, and amines.

Figure 2. Phase II Toxicity Identification Evaluation Fractionation Procedures



3. PHASE I TIE RESULTS

3.1 Phase I TIE Results for Ceriodaphnia dubia - 9/21/09 Effluent Sample

As in the initial test of this effluent sample, there was \underline{no} significant toxicity to C. dubia survival in the untreated (Baseline) effluent when compared to the Lab Control. The absence of significant toxicity to C. dubia survival effectively precludes the ability of the TIE treatments to provide meaningful results for the survival response.

The reproduction results of this TIE are summarized below in Table 2. As in the initial test of this effluent sample, there were significant reductions in reproduction in the untreated effluent, confirming that the toxicity was persistent and present at the time of the TIE.

Table 2. Effects of the 1	TIE treatments on t Ceriodaphni	he toxicity of the a dubia reproduc	e "Inlet to Reserv	oir B" effluent to
TIE Treatment	Mean # of Of	fspring per Surv	iving Female ^a	T
	Control/Blank	50% effluent	100% effluent	Toxicity Removal?
Baseline	37.7	34.3	8.7	
рН3	28.0	38.4	4.4	no
pH11	31.8	29.8	12.8	no
pH3 Filtration	32.3	32.8	8.5 ^b	b
pHi Filtration	34.6	36.2	15.8	partial removal
pH11 Filtration	28.0	34.8	4.8	no
pH3 C18SPE	34.0	37.8	31.2	Yes
pHi C18SPE	С	38.0	38.2	Yes
pH9 C18SPE	31.2	34.0	24.4	Yes
pH3 Aeration	29.3	29.8	С	could not be determined
pHi Aeration	28.2	35.4	11.7	no
pH11 Aeration	29.0	34.2	7.5	no
pH11 Aeration Washdown	39.0	47.2	44.2	toxicity not recovered
PBO 25 μg/L	43.3	37.2	12.5	no
PBO 100 μg/L	40.0	3.5	0.0	toxicity increased
Humic Acid 20 mg/L	36.0		23.7	Yes
Humic Acid 40 mg/L	29.3		29.0	Yes

a - In order to evaluate the effects of the effluent on the *C. dubia* reproduction response without any interfering effects of variability in the survival response, mean reproduction responses were limited to surviving organisms.

Key TIE Observations:

• There was a partial removal of toxicity by the pHi (and pH3) filtration treatments, which suggests that some fraction of the toxicants present had a high affinity for sorption to

b - Based upon the observation of at least one replicate for which the dying female exhibited greater than the reported mean # of offspring at least 2 days prior to test termination, it is expected that the true mean # of offspring for this test treatment was higher than is reported.

c - Due to technician error, the test replicates for this test treatment were terminated prior to the actual test termination for the remaining test treatments.

- particulates or that may have had an affinity for sorption to the filter membrane; furthermore, this affinity for sorption was pH-dependent, increasing as pH decreased;
- Toxicity was effectively removed by the C18SPE treatments at all pH Adjustments, indicating that organic contaminants were a primary cause of the observed toxicity;
- There was significant removal of toxicity by the 20 mg/L and 40 mg/L humic acid treatments, with greater removal relative to the method blank being exhibited at the 40 mg/L treatment, indicating that contaminants amenable to sorption to dissolved organic carbon were a primary cause of the observed toxicity;
- There was an increase in toxicity at the 100 µg/L PBO treatment (particularly apparent at the 50% effluent concentration), which indicates the presence of contaminants that normally would be detoxified by the Cyp450 enzyme system.

These test results are indicative of one or more organic contaminants that have a strong affinity for sorption to particulates and dissolved organic carbon. The PBO test results indicate that the contaminant is of the type that is detoxified by the Cyp450 enzyme system. Based upon recent studies reporting the presence of pyrethroid pesticide in municipal wastewater treatment plant effluents, this is suggestive of pyrethroids as a cause of toxicity. However, other contaminants (e.g., some petroleum hydrocarbons) may also fit this profile.

The test data for this TIE is presented in Appendix B.

3.2 Phase I TIE Results for Fathead Minnows - 9/21/09 Effluent Sample

The survival results of this TIE are presented in Table 3a below. As in the initial test of the 9/21/09 effluent sample, there were significant reductions in survival in the untreated (Baseline) effluent, confirming that toxicity was persistent and present at the time of the TIE.

Table 3a. Effects of the	TIE treatments of fatheacters	n the toxicity of I minnow survi	the "Inlet to Resval.	servoir B" effluent to
TIE Treatment		Mean % Surviva	al	Towisian D. 10
	Control/Blank	50% effluent	100% effluent	Toxicity Removal?
Baseline #1	90	60	0	
Baseline #2ª	95	50	5	
pH3 ^a	85	80	0	no effect
pH11 ^a	90	65	0.	no effect
pH3 Filtration ^a	95	90	55	significant removal
pHi Filtration	90	45	0	no
pH11 Filtration ^a	90	90	0	no while
pH3 C18SPE	85	90	90	Yes
pHi C18SPE	95	100	90	Yes
pH9 C18SPE	85	95	85	Yes
pH3 Aeration	80	5	0	increase in toxicity
pHi Aeration	100	40	0	no
pH11 Aeration	80	35	0	no
pH11 Aeration Washdown	75	100	95	toxicity not recovered
Humic Acid (20 mg/L)	95		5	no
Humic Acid (40 mg/L)	70		5	no

a - Due to the observation of pathogen infection that was observed in some of the fish at this test treatment within the first 96 hrs of testing, this test treatment was re-initiated with new fish; Baseline #2 was run concurrently with these re-tests.

Key TIE Observations:

- There was removal of survival toxicity by the pH3 Filtration treatment, which suggests that some fraction of the toxicants present were associated with particulates, or that the toxicant(s) may have had an affinity for sorption to the filter membrane, and that this affinity for sorption increased as pH decreased;
- There was complete removal of toxicity by the C18SPE treatment at all three pH
 manipulations, indicating that non-polar organics were a major cause of the observed toxicity;
- In contrast to the *C. dubia* TIE results, there was no significant removal of toxicity by the humic acids treatments, which suggests that there may be different toxicants causing the toxicity to these two different species, with the *C. dubia* toxicants having a greater affinity for sorption.

The growth results of the TIE are summarized below in Table 3b, and generally mirror those of the survival data.

Note that in order to eliminate the effects of mortalities on the growth response, the growth endpoint being measured is "Mean Dry Weight" as opposed to the Biomass Value that is used for NPDES compliance evaluation.

Table 3b. Effects of the TIE treatments on the toxicity of the "Inlet to Reservoir B" effluent to fathead minnow growth.						
TITE To a to a company	Mea	n Dry Weight	(mg)	Toxicity Removal?		
TIE Treatment	Control/Blank	50% effluent	100% effluent			
Baseline #1	0.27	0.19	0			
Baseline #2 ^a	0.29	0.26	0.06			
pH3ª	0.35	0.21	0	no effect		
pH11ª	0.35	0.31	0	no effect		
pH3 Filtration ^a	0.32	0.29	0.28	significant removal		
pHi Filtration	0.32	0.30	0	no		
pH11 Filtration ^a	0.28	0.28	0	no		
pH3 C18SPE	0.28	0.28	0.26	a		
pHi C18SPE	0.32	0.30	0.32	Yes		
pH9 C18SPE	0.26	0.27	0.28	Yes		
pH3 Aeration	0.34	0.26	0	no		
pHi Aeration	0.30	0.19	0	no		
pH11 Aeration	0.28	0.18	0	no		
pH11 Aeration Washdown	0.34	0.30	0.30	toxicity not recovered		
Humic Acid 20 mg/L	0.31		0.09	no		
Humic Acid 40 mg/L	0.38		0.03	no		

a - Toxicity had been removed by the precursor filtration treatment.

The test data and summary of statistics for this TIE testing are provided in Appendix C.

3.3 Phase I TIE Results for Fathead Minnows - 1/11/10 Effluent Sample

The results of this TIE are presented in Table 4. As per consultation with Chevron staff, and based upon the observation of significant toxicity to fathead minnows being removed by the C18 treatment of the 9/21/09 effluent sample, the Phase I TIE of the 1/11/10 effluent sample was "targeted" towards the C18 treatment, and included the Graduated pH (pH6, pH7, and pH8) treatments to evaluate possible pH lability of any organic toxicants. Also, as the fathead minnow growth response did not provide any additional interpretive value in the previous TIE, this TIE was limited to evaluation of the survival response.

Table 4. Effects of the TIE treatments on the toxicity of the Chevron/Cawelo "Inlet to Reservoir B" effluent to fathead minnow survival.						
TIE Treatment		Mean % Surviva	1	T-4:-:- D 10		
	Control/Blank	50% effluent	100% effluent	Toxicity Removal?		
Baseline #1	80	93.3	13.3			
Test at pH6	- 80	0	0	toxicity increased		
Test at pH7	86.7	66.7	6.7	slight increase		
Test at pH8	73.3	80	46.7	partial reduction		
Baseline #2	100	80	13.3			
pH3 Adjustment	100	100	26.7	slight removal		
pH9 Adjustment	100	86.7	20	slight removal		
pH3 Filtration	100	100	93.3	YES		
pHi Filtration	100	100	73.3	YES		
pH9 Filtration	100	93.3	86.7	YES		
pH3 C18SPE	66.7	100	80	a		
pHi C18SPE	100	93.3	100	residual toxicity removed		
pH9 C18SPE	100	100	100	residual toxicity removed		

a - Toxicity had been removed by the precursor filtration treatment.

Key TIE Observations:

As in the initial test of the 1/11/10 effluent sample, there were significant reductions in survival in the untreated (Baseline) effluent, confirming that this toxicity was persistent and present at the time of the TIE.

- There was pH-labile toxicity, with toxicity increasing as pH decreased to pH6, and toxicity
 decreasing as pH increased to pH8. This is suggestive of a weakly acidic toxicant that
 becomes less polar as the pH decreases and more polar as the pH increases. This type of
 pattern would be consistent with naphthenic acids as a cause of toxicity;
- There was significant removal of survival toxicity by the filtration treatments, which suggests
 that some fraction of the toxicants present were associated with particulates;

• There was complete removal of and residual toxicity (i.e., toxicity remaining after the filtration treatment) by the C18SPE treatment, indicating that non-polar organics were a cause of the observed toxicity.

The test data the initial TIE with fathead minnows are presented in Appendix D.

4. PHASE II TIE RESULTS

4.1 Phase II TIE: C18 Column Elution Toxicity Recovery Results

The C18 columns that had been used to treat the 9/21/09 effluent sample were eluted with 100% methanol and the eluate was then tested to determine if the toxicity that had been removed from the effluent samples by the C18 columns could be recovered in the C18 column eluate.

4.1.1 Recovery of C18 Column Eluate Toxicity to Ceriodaphnia dubia

The reproduction results of the C18 eluate toxicity test with *C. dubia* are summarized in Table 5. There was a significant reduction in reproduction in the "New" untreated (Baseline) 100% effluent indicating that the toxicity that had been observed in the initial testing of the effluent was still present. However, the magnitude of the observed toxicity was less than that observed in the initial toxicity test and in the Phase I TIE; this reduction in the magnitude of the toxicity suggests that:

- 1. the contaminant(s) in the effluent had become more strongly bound to particulates and/or the effluent sample container during the interim sample storage period; and/or
- 2. the contaminant(s) in the effluent had undergone some degradation during the interim sample storage period.

There was significant recovery of reproduction toxicity from the columns that had removed the toxicity in the previous Phase I TIE C18SPE treatment. However, the magnitude of the toxicity that was recovered was less than that which had been removed in the Phase I TIE; this reduction in the magnitude of the toxicity recovery likely reflects incomplete desorption of the bound contaminants by 100% methanol (note that methanol is a much weaker solvent than other compounds such as methylene chloride).

The test data sheets and summary of statistics for this testing are provided in Appendix E.

Table 5. Recovery of C18 column eluate toxicity to Ceriodaphnia dubia reproduction.							
TIE Treatment	Mean # of (Toxicity					
	Control/Blank 50% effluent 100% effluent						
"New" Baseline ^b	27.0	26.6	16.4				
"Old" Baseline ^c	"Old" Baseline ^c 37.7 34.3 8.7						
100% C18 Eluate	21.0	YES					

a - In order to evaluate the effects of the effluent on the *C. dubia* reproduction response without any interfering effects of variability in the survival response, mean reproduction responses were limited to surviving organisms.

b - This was a new test of the effluent sample that had been collected on 9/21/09 and which had been stored between that time and the time of the current Phase II TIE testing.

c - This was the Baseline test that was performed in the initial TIE of the 9/21/09 sample (during which the c18 columns which were eluted in the current testing had originally been processed and frozen).

4.1.2 Recovery of C18 Column Eluate Toxicity to Fathead Minnows

The results of the C18 eluate toxicity test with fathead minnows are summarized in Tables 6a and 6b. There were significant reductions in survival and growth in the untreated (Baseline) 100% effluent indicating that the toxicity that had been observed in the initial testing of the effluent was still present. However, the magnitude of the observed toxicity was less than that observed in the initial toxicity test and in the Phase I TIE; this reduction in the magnitude of the toxicity suggests that:

- 1. the contaminant(s) in the effluent had become more strongly bound to particulates and/or the effluent sample container during the interim storage period; and/or
- 2. the contaminant(s) in the effluent had undergone some degradation during the interim sample storage period.

There was significant recovery of survival and growth toxicity from the columns that had removed the toxicity in the previous Phase I TIE C18SPE treatment. However, the magnitude of the toxicity that was recovered was less than that which had been removed in the Phase I TIE; this reduction in the magnitude of the toxicity recovery likely reflects incomplete desorption of the bound contaminants by 100% methanol (note that methanol is a much weaker solvent than other compounds such as methylene chloride).

The test data sheets and summary of statistics for this testing are provided in Appendix F.

Table 6a. Recovery of C18 column eluate toxicity to fathead minnow survival.						
TIE Treatment		Toxicity				
THE Treatment	Control/Blank 50% effluent 100% effluent					
"New" Baseline	80	86.7	26.7			
"Old" Baselineb	90	60	0			
100% C18 Eluate	100	73.3	6.7	YES		

- a This was a new test of the effluent sample that had been collected on 9/21/09 and which had been stored between that time and the time of the current Phase II TIE testing.
- b This was the Baseline #1 test that was performed in the initial TIE of the 9/21/09 sample (during which the c18 columns which were eluted in the current testing had originally been processed and frozen).

Table 6b. Recovery of C18 column eluate toxicity to fathead minnow growth.						
TIE Treatment	Toxicity					
TIL Treatment	100% effluent	Recovery?				
"New" Baseline	0.40	0.30	0.14			
"Old" Baselineb	0.27	0.19	0			
100% C18 Eluate	0.40	0.28	0.09	YES		

- a This was a new test of the effluent sample that had been collected on 9/21/09 and which had been stored between that time and the time of the current Phase II TIE testing.
- b This was the Baseline #1 test that was performed in the initial TIE of the 9/21/09 sample (during which the c18 columns which were eluted in the current testing had originally been processed and frozen).

4.2 Phase II TIE: Toxicity Recovery of Sequential Elutions of the C18 Columns

The C18 columns that had been used to treat the 9/21/09 effluent sample were sequentially eluted with seven methanol concentrations (50, 75, 80, 85, 90, 95, and 100%) and the eluates were then tested to determine if the toxicity that had been removed from the effluent samples by the C18 columns could be recovered in the C18 column eluate fractions.

4.2.1 Toxicity Recovery of Sequential C18SPE Elutions to Ceriodaphnia dubia

The results of this testing are summarized in Tables 7a and 7b for survival and reproduction, respectively. There was significant recovery of toxicity to both survival and reproduction at the 80%, 85%, and 90% methanol eluate fractions.

Table 7a. Recovery of sequential C18SPE elutions toxicity to Ceriodaphnia dubia survival.						
TIE Treatment		Mean %	Survival		Toxicity	
TILS TROUBLE	Control/Blank	1X	2X	4X	Recovery?	
Lab Water Control	100					
50% Methanol	100	80	100	100	no	
75% Methanol	100	100	100	100	no	
80% Methanol	60	100	100	20	YES	
85% Methanol	100	100	80	40	YES	
90% Methanol	60	80	75	40	YES	
95% Methanol	80	100	80	100	no	
100% Methanol	100	80	100	80	no	

Table 7b. Recovery of sequential C18SPE elutions toxicity to Ceriodaphnia dubia reproduction.					
TIE Treatment	Mean	# Offspring pe	er Surviving Fe	male ^a	Toxicity
TILS TTOURNOIN	Control/Blank	1X	2X	4X	Recovery?
Lab Water Control	21.0	11.55 PH			
50% Methanol	21.6	27.3	25.4	24.6	no
75% Methanol	18.8	29.0	31.4	17.0	slight
80% Methanol	23.0	24.6	23.2	3.0	YES
85% Methanol	19.8	25.8	8.8	0.0	YES
90% Methanol	19.0	21.0	19.7	8.5	YES
95% Methanol	19.3	22.0	18.3	12.0	partial
100% Methanol	15.4	25.0	22.2	13.0	partial

a - In order to evaluate the effects of the effluent on the *C. dubia* reproduction response without any interfering effects of variability in the survival response, mean reproduction responses were limited to surviving organisms.

4.2.2 Toxicity Recovery of Sequential C18SPE Elutions to Fathead Minnows

The results of this testing are summarized in Table 8. There was significant recovery of survival toxicity at the 80%, 85%, and 90% methanol eluate fractions.

Table 8. Recovery of sequential C18SPE elutions toxicity to fathead minnow survival.					
TIE Treatment	-	Mean %	Survival		Toxicity
THE Troutment	Control/Blank	1X	2X	4X	Removal?
Lab Water Control	100				
50% Methanol	100	90	90	90	no
75% Methanol	80	80	30	25	partial
80% Methanol	90	30.	5	. 0	YES
85% Methanol	90	20	0	0	YES
90% Methanol	100	100	15	0	YES
95% Methanol	80	100	80	60	slight
100% Methanol	70	60	100	70	no

5. CHEMICAL ANALYSES OF THE TOXIC C18SPE FRACTIONS

The eluates of the 80%, 85%, and 90% methanol concentrations and their corresponding blanks were shipped on ice to Dr. Cliff Lange at Auburn University for chemical analysis targeted to chemicals that are typical constituents of petroleum refinery operations (e.g., volatile organic compounds, naphthenic acids, naphthalenes, phenolics, alkanes, and amines). The results of these analyses are summarized in Table 9, below.

Of particular interest are the reported concentrations of **naphthenic acids**. Naphthenic acids are naturally occurring linear and cyclic carboxylic compounds associated with the acidic fraction of petroleum, and are recognized as common causes of aquatic toxicity in petroleum refinery effluents. The cumulative measured concentration of the naphthenic acids included in the analyses of in the C18 eluate was ~10.8 mg/L, which is within the LC50 range reported for aquatic organisms. However, it is important to note that the current analysis was limited to 6 representative compounds, whereas there are over 100 naphthenic acid compounds; this suggests that the concentration of total naphthenic acids in the C18 eluate was much greater than the 10.8 mg/L reported for the 6 compounds that were quantified.

Furthermore, it must be noted that in the Phase II TIE C18 elution, methanol is used as the solvent due to the fact the when the eluate is reconstituted to the IX concentration with Control water, the residual amount of methanol present is below toxicity thresholds. Stronger solvents such as methylene chloride, hexane, etc., would almost certainly have resulted in greater desorption of naphthenic acids from the C18 columns than did methanol, which would have resulted in even higher reported concentrations.

Table 9. Results of targeted chemical	analyses of	the toxicity	C18 colum	n eluate fra	ctions (unit	s = mg/L).
	90% methanol	85% methanol	80% methanol	90% methanol blank	85% methanol blank	80% methanol blank
VOAs						
1,2,4-trimethylbenzene	0.09	0.07	0.07	0.01	0.01	0.00
1-ethyl-2-methyl benzene	0.14	0.11	0.10	0.01	0.01	0.01
1,3-diethyl benzene	0.07	0.05	0.05	0.00	0.00	0.00
1-methyl-3-propyl benzene	0.12	0.10	0.09	0.00	0.00	0.00
1-methyl-3-(1-methylethyl)-benzene	80.0	0.07	0.07	0.01	0.00	0.00
1,2-diethyl benzene	0.22	0.21	0.19	0.01	0.01	0.01
benzene	0.70	0.72	0.65	0.00	0.00	0.00
toluene	0.56	0.47	0.43	0.01	0.01	0.01
p-xylene	0.77	0.62	0.56	0.01	0.01	0.01
ethylbenzene	0.56	0.43	0.39	0.01	0.00	0.00
1-methyl-2-propyl benzene	0.90	0.74	0.69	0.01	0.01	0.01
1,3,5-trimethyl benzene	0.10	0.08	0.07	0.01	0.01	0.01
1,2-dimethylbenzene	0.89	0.92	0.85	0.02	0.01	0.01
1,3-dimethylbenzene	0.74	0.63	0.58	0.01	0.01	0.00
Total VOAs =	5.94	5.22	4.79	0.12	0.09	0.07

	00 ~	0.5.00	00.00	90%	85%	80%
4.5	90%	85%	80% methanol	methanol	methanol	methanol
	methanol	methanol	methanoi	blank	blank	blank
PHENOLICS						
phenol	2.55	2.17	2.05	0.03	0.02	0.02
2-methyl phenol	1.70	1.34	1.23	0.01	0.01	0.01
3-methyl phenol	2.00	1.53	1.39	0.02	0.01	0.01
3,4-dimethyl phenol	1.37	1.13	1.03	0.01	0.01	0.01
3-ethyl phenol	0.38	0.29	0.26	0.00	0.00	0.00
aniline	0.51	0.39	0.35	0.00	0.00	0.00
Total Phenolics =	8.51	6.85	6.31	0.07	0.05	0.05
NAPHTHALENES						
1-methyl-naphthalene	0.09	0.07	0.07	0.01	0.01	0.00
2-methyl-naphthalene	0.14	0.11	0.10	0.00	0.01	0.01
1,5-dimethyl-naphthalene	0.17	0.18	0.16	0.00	0.00	0.00
1,7-dimethyl-naphthalene	0.06	0.05	0.04	0.00	0.00	0.00
naphthalene	0.36	0.28	0.25	0.00	0.00	0.00
Total Naphthalenes =	0.82	0.69	0.62	0.01	0.02	0.01
NAPHTHENIC ACIDS				<u> </u>	<u> </u>	
cyclohexanecarboxylic acid	0.61	0.51	0.48	0.00	0.00	0.00
methyl,pentyl cyclohexanecarboxylic	T				0.00	0.00
acid	0.48	0.41	0.39	0.00	0.00	0.00
methyl,pentyl cyclopentanecarboxylic		0.45	0.44	0.01	0.00	0.00
acid	0.59	0.45	0.41	0.01	0.00	0.00
heptylcyclohexanecarboxylic acid	0.78	0.59	0.54	0.01	0.00	0.00
cyclopentanecarboxylic acid	0.96	0.75	0.64	0.01	0.01	0.00
diethylcyclopentanecarboxylic acid	0.84	0.72	0.66	0.01	0.00	0.00
Total Naphthenic Acids =	4.26	3.43	3.12	0.04	0.01	0
	<u> </u>	ļ				
AMINES	0.34	0.30	0.22	nd	nd	nd
diethanolamine	0.34	0.30	0.22	nd	nd	nd
methylamine			0.19	nd	nd	nd
ethyl amine	0.17	0.16			nd nd	nd nd
ethanol amine	0.14	0.11	0.10	nd	nd	nd
triazene	0.00	0.00	0.00	nd		
methyl diethanol amine	0.11	0.10	0.08	nd	nd	nd
ethylenediamine	0.07	0.06	0.04	nd	nd	nd

Table 9. Results of targeted chemical	analyses of	the toxicity	C18 colum	n eluate fra	ctions (unit	s = mg/L).
ν. Σ	90% methanol	85% methanol	80% methanol	90% methanol blank	85% methanol blank	80% methanol blank
ALKANES						
3-methyl-1-pentene	0.49	0.37	0.34	0.01	0.01	0.01
decane	0.62	0.47	0.43	0.03	0.02	0.02
2,7-dimethyl octane	0.26	0.25	0.22	0.01	0.01	0.00
4-methyl-nonane	0.30	0.28	0.27	0.01	0.01	0.01
2,6-dimethyloctane	0.25	0.24	0.22	0.01	0.01	0.01
3-ethyl-2methyl-heptane	0.26	0.25	0.24	0.01	0.01	0.01
undecane	0.28	0.27	0.25	0.01	0.01	0.01
dodecane	0.22	0.22	0.21	0.01	0.01	0.00
tridecane	0.34	0.33	0.33	0.01	0.01	0.01
tetradecane	0.16	0.14	0.13	0.01	0.01	0.01
pentadecane	0.19	0.18	0.18	0.01	0.01	0.01
hexadecane	0.34	0.32	0.28	0.01	0.01	0.02
heptadecane	0.11	0.10	0.10	0.00	0.01	0.01
octadecane	0.05	0.05	0.04	0.00	0.00	0.00
nonadecane	0.04	0.03	0.03	0.00	0.00	0.00
eicosane	0.06	0.06	0.06	0.00	0.00	0.00
heneicosane	0.04	0.04	0.03	0.00	0.00	0.00
docosane	0.06	0.06	0.05	0.01	0.01	0.01
octacosane	0.14	0.13	0.12	0.01	0.01	0.01
dotriacontane	0.06	0.05	0.05	0.02	0.02	0.02
tetracontane	0.11	0.11	0.10	0.02	0.01	0.01
Total Alkanes =	4.38	3.95	3.68	0.2	0.19	0.18

6. SUMMARY AND CONCLUSIONS

In response to observations of significant toxicity in the Chevron/Cawelo "Inlet to Reservoir B" effluent samples that have been collected on September 21, 2009, and on January 11, 2010, Toxicity Identification Evaluations (TIEs) with *Ceriodaphnia dubia* and fathead minnows were performed. Due to the low magnitude of the toxicity of the 1/11/10 effluent sample to *C. dubia*, the TIE of this sample was limited to the fathead minnows.

Phase I TIEs with Ceriodaphnia dubia

September 21, 2009, "Inlet to Reservoir B" Effluent Sample

As in the initial test, there was no toxicity to *C. dubia* survival in the untreated effluent. The reduction in reproduction in the untreated effluent is also consistent with the initial test, and confirms that this toxicity was persistent and present at the time of the TIE.

Key TIE Observations:

- There was a partial removal of toxicity by the pHi (and pH3) filtration treatments, which suggests that some fraction of the toxicants present had a high affinity for sorption to particulates or that may have had an affinity for sorption to the filter membrane; furthermore, this affinity for sorption was pH-dependent, increasing as pH decreased;
- Toxicity was effectively removed by the C18SPE treatments at all pH Adjustments, indicating that organic contaminants were a primary cause of the observed toxicity;
- Toxicity was at least partially removed by the 20 mg/L and 40 mg/L humic acid treatments, with
 greater removal relative to the method blank being exhibited at the 40 mg/L treatment, indicating
 that contaminants amenable to sorption to dissolved organic carbon were a primary cause of the
 observed toxicity;
- There was an increase in toxicity at the 100 µg/L PBO treatment (particularly apparent at the 50% effluent concentration), which indicates the presence of contaminants that normally would be detoxified by the Cyp450 enzyme system.

These test results are indicative of one or more organic contaminants that have a strong affinity for sorption to particulates and dissolved organic carbon. The PBO test results indicate that the contaminant is of the type that is detoxified by the Cyp450 enzyme system. Based upon recent studies reporting the presence of pyrethroid pesticide in municipal wastewater treatment plant effluents, this is suggestive of pyrethroids as a cause of toxicity. However, other contaminants (e.g., some petroleum hydrocarbons) may also fit this profile.

Phase I TIEs with Fathead Minnows

September 21, 2009, "Inlet to Reservoir B" Effluent Sample

As in the initial test of the 9/21/09 effluent sample, there were significant reductions in survival in the untreated (Baseline) effluent, confirming that toxicity was persistent and present at the time of the TIE.

Key TIE Observations:

- There was removal of survival toxicity by the pH3 Filtration treatment, which suggests that
 some fraction of the toxicants present were associated with particulates, or that the toxicant(s)
 may have had an affinity for sorption to the filter membrane, and that this affinity for sorption
 increased as pH decreased;
- There was complete removal of toxicity by the C18SPE treatment at all three pH manipulations, indicating that non-polar organics were a major cause of the observed toxicity;
- In contrast to the *C. dubia* TIE results, there was no significant removal of toxicity by the humic acids treatments, which suggests that there may be different toxicants causing the toxicity to these two different species, with the *C. dubia* toxicants having a greater affinity for sorption.

The growth results of this TIE generally mirror those of the survival data.

January 11, 2010, "Inlet to Reservoir B" Effluent Sample

As per consultation with Chevron staff, and based upon the observation of significant toxicity to fathead minnows being removed by the C18 treatment of the 9/21/09 effluent sample, the Phase I TIE of the 1/11/10 effluent sample was "targeted" towards the C18 treatment, and included the Graduated pH (pH6, pH7, and pH8) treatments to evaluate possible pH lability of any organic toxicants. Also, as the fathead minnow growth response did not provide any additional interpretive value in the previous TIE, this TIE was limited to evaluation of the survival response.

As in the initial test of the 1/11/10 effluent sample, there were significant reductions in survival in the untreated (Baseline) effluent, confirming that this toxicity was persistent and present at the time of the TIE.

Key TIE Observations:

- There was pH-labile toxicity, with toxicity increasing as pH decreased to pH6, and toxicity decreasing as pH increased to pH8. This is suggestive of a weakly acidic toxicant that becomes less polar as the pH decreases and more polar as the pH increases. This type of pattern would be consistent with naphthenic acids as a cause of toxicity;
- There was significant removal of survival toxicity by the filtration treatments, which suggests that some fraction of the toxicants present were associated with particulates;

 There was complete removal of and residual toxicity (i.e., toxicity remaining after the filtration treatment) by the C18SPE treatment, indicating that non-polar organics were a cause of the observed toxicity.

Phase II TIE: C18 Column Elution Toxicity Recovery Results

There were significant reductions in *C. dubia* reproduction and fathead minnow survival in the untreated (Baseline) 100% effluent indicating that the toxicity that had been observed in the initial testing of the effluent was still present. However, the magnitude of the observed toxicity was less than that observed in the initial toxicity tests and in the Phase I TIEs; these reductions in the magnitude of the toxicity suggest that:

- 1. the contaminant(s) in the effluent had become more strongly bound to particulates and/or the effluent sample container during the interim sample storage period; and/or
- 2. the contaminant(s) in the effluent had undergone some degradation during the interim sample storage period.

There was significant recovery of *C. dubia* reproduction toxicity and fathead minnow survival toxicity from the C18 columns that had removed the toxicity in the previous Phase I TIE C18SPE treatments. However, the magnitude of the toxicity that was recovered was less than that which had been removed in the Phase I TIEs; these reductions in the magnitude of the toxicity recovery likely reflects incomplete desorption of the bound contaminants by 100% methanol (note that methanol is a much weaker solvent than other compounds such as methylene chloride).

Phase II TIE: Toxicity Recovery of Sequential Elutions of the C18 Columns

There was significant recovery of toxicity to both *C. dubia* reproduction and fathead minnow survival at the 80%, 85%, and 90% methanol eluate fractions.

Phase II TIE: Chemical Analyses of Toxic C18SPE Eluate Fractions

The eluates of the 80%, 85%, and 90% methanol concentrations and their corresponding blanks were shipped on ice to Dr. Cliff Lange at Auburn University for chemical analysis targeted to chemicals that are typical constituents of petroleum refinery operations (e.g., volatile organic compounds, naphthenic acids, naphthalenes, phenolics, alkanes, and amines).

Of particular interest are the reported concentrations of **naphthenic acids**. Naphthenic acids are naturally occurring linear and cyclic carboxylic compounds associated with the acidic fraction of petroleum, and are recognized as common causes of aquatic toxicity in petroleum refinery effluents. The cumulative measured concentration of the subset of naphthenic acids included in the analyses of in the C18 eluate was ~10.8 mg/L, which is within the LC50 range reported for aquatic organisms. However, it is important to note that the current analysis was limited to 6

representative compounds, whereas there are over 100 naphthenic acid compounds; this suggests that the concentration of total naphthenic acids in the C18 eluate was much greater than the 10.8 mg/L reported for the 6 compounds that were quantified.

Furthermore, it must be noted that in the Phase II TIE C18 elution, methanol is used as the solvent due to the fact the when the eluate is reconstituted to the 1X concentration with Control water, the residual amount of methanol present is below toxicity thresholds. Stronger solvents such as methylene chloride, hexane, etc., would almost certainly have resulted in greater desorption of naphthenic acids from the C18 columns than did methanol, which would have resulted in even higher reported concentrations.

Conclusions:

The results of this TIE investigation indicate that the contaminants responsible for causing toxicity in the Chevron/Cawelo "Inlet to Reservoir B" effluent have an affinity for sorption to particulates and/or the filtration membrane with that affinity increasing as pH decreases; the graduated pH tests with the fathead minnows indicated a similarly important pH effect with toxicity increasing as pH decreases. These results suggest that the toxicants in the effluent are weakly acidic in nature, becoming less polar as pH decreases.

C18SPE treatment was observed to remove all remaining toxicity indicating that the toxicant(s) are likely organic in nature. The increase in toxicity resulting from PBO treatment further suggests that the organic contaminants are normally detoxified by the Cyp450 enzyme system.

There were some differences in the TIE responses of the *C. dubia* and the fathead minnows, most notably the removal of toxicity to *C. dubia* by the addition of dissolved organic carbon (humic acids), which did not occur for the fathead minnows. This suggests the possibility that there are multiple toxicants present, with one or more of the contaminants that are toxic to *C. dubia* exhibiting greater sorption affinity to dissolved organic carbon.

Most important was the observation of measured concentrations of naphthenic acids in the toxic C18 eluate fractions at concentrations that might be expected to cause toxicity to these aquatic organisms. It is important to note that naphthenic acids also match up with the TIE profiles, in particular the pH lability in conjunction with toxicity removal by C18SPE.

Note that in several places in this report, pyrethroid pesticides may have been mentioned as an example of a contaminant that would also "fit" the TIE profile being observed. This should not be interpreted as a strong signal that it is, in fact, pyrethroid pesticides causing the toxicity. Other contaminants might also be expected to exhibit many of the same TIE responses. However, pyrethroids have recently received a great deal of attention as its use (and identification as a cause of toxicity) has increased in recent years, and it has been observed to cause toxicity in

wastewater treatment plant effluents. On that basis, we would recommend that future toxic effluent samples be analyzed for pyrethroid pesticides.

In toto, these TIE results are strongly indicative of naphthenic acids as a primary cause of the observed toxicity. Arguably, the most common wastewater treatment plant methodology used to address toxicity due to naphthenic acids is treatment with activated carbon. On that basis, we would recommend that any future toxicity testing of effluent samples have an accompanying side-by-side test of activated carbon-treated effluent. It is also recommended that any future toxic effluent samples be analyzed directly for naphthenic acids.

6.1 QA/QC Summary

Test Conditions – Test conditions (pH, D.O., temperature, etc.) were all within acceptable limits for these tests. All analyses were performed according to laboratory Standard Operating Procedures.

Negative Lab Control – The biological responses in the Lab Water Control treatments for these tests were within acceptable limits.

Several Blank treatments in the TIE exhibited toxicity to survival during the test. When this occurred early in the fathead minnow test, the treatments were retested, however, there was insufficient sample to perform retests on any other manipulations.

Positive Control – The results of the concurrent reference toxicant test were consistent with the previous reference toxicant tests performed in our lab for both species, indicating that the test organisms used in the current tests were responding to toxic stress in a typical and consistent fashion.

Concentration Response Relationships – There were valid concentration-response relationships for the reference toxicant tests, which were determined to be acceptable for this testing.

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Appendix A

Chain-of-Custody Records for the Collection and Delivery of the Chevron/Cawelo "Inlet to Reservoir B" Effluent Samples

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Appendix B

Test Data for the Testing of Phase I TIE treatments on the Toxicity of the 9/21/09 "Inlet to Reservoir B" Effluent Sample to Ceriodaphnia dubia

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Short-Term Chronic 3-Brood Ceriodaphnia dubia Survival & Reproduction Test Data	Client: Precision Analytical - Chevron Cawelo Sample ID: pHi C18SPE	15263 Test ID: 36431	D.O. Cond. Temp	New Old New Old Usycon'l Coll N. M. Coll De Barrell Coll New De Coll D	0 1년 1년 1월 10 10 10 10 10 10 10 10 10 10 10 10 10		1			4 8.03 8.75 16.8 7.5 20 20 20 20 2 2 2 2 2 1 1 1 1 2 2 2 2 2		6 732 8.52 10.3 8.9 238 By MAND WOND WATER		1 2/X +1/4 a4/4 9//X 4/1/8/75 4/1/a
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Short-Term Chronic 3-Brood Ceriodaphnia dubia Survival & Reproduction Test Data

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Short-Term Chronic 3-Brood Ceriodaphnia dubia Survival & Reproduction Test Data

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40/82/6	Lab Water	AJO-NDIS	17 189	Sal'n-Pride: 37. Times (28.50)	Solf Pieg. — Old WO. — Time.	Sol'n Henrio (Old W.O.) How Things 80 P.	Sulfiferi — Old Wo S. Plue	XXX	Sallin Freit: Niew WO Countie.	Salvi Rep. 2 - Old Wo. 04 Thre 163	Salu Direc New Wol. Castrols.	Nother Property of the Notice of The Note of the Notice of	Month Neonates/Female - 726: 2
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Short-Term Chronic 3-Brood Ceriodaphnia dubia Survival & Reproduction Test Data Test Date: A-6 On Analytical - Chevron Cawelo Sample ID: pH11 Aeration Control / Diluent: Lab	Survival (Rumothudfor			خالب ک		9 0			25.3 - 1.1 W P F F F F F F F F F F F F F F F F F F	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
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Short-Term Chronic 3-Brood Ceriodaphnia dubia Survival & Reproduction Test Data

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Short-Term Chronic 3-Brood Ceriodaphnia dubia Survival & Reproduction Test Data

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Precision Analytical - Chevron Cawelo	36431	L		196	I	り					E 77.1		Tot		(uS/cm)	725		110	1	4		S.		*	Tot	
evron	Ä	රි		61	i	[7] S	(196		5 1.199		8		ည	1		(4		199		7		8		
al - Cl	Test ID:		PIO	1 de 1			L	7.9	L	8.5	١	2		D.O.	PIO			2	1	2.5	ļ	∞	1	20		
nalytic		D:0	New	2.6	}	サナ	ļ	7.7	L .	٦		1			New	- &	l	かみ	l	8.3	1	2.0	ŀ	Ţ		
cision A	15263		Old		١	\$.15	1	ながれ	ı	8.3(١	3.33		DEC.	PIO		ł	2.51	ا ا	55.52		3.62	1	138		
		Hd	New	8.05	1	797	1	£9 .8	l	多	1	1			New	27	1	777 8.51		8.07		1000 1000	\	J		
Client:	Project #:	Day		0	_	2	æ	4	જ	9	7	8		Day		0	_	2	3	4	2,	9	7	∞		
~	Pro		reserve					nk	918 -								.			%0	101	<u> </u>				7.

Appendix C

Test Data for the Testing of Phase I TIE treatments on the Toxicity of the 9/21/09 "Inlet to Reservoir B" Effluent Sample to Fathead Minnows

7 Day Chronic Fathead Minnow Toxicity Test Data

Client:	Precision Analytical	Organism Log#: 4789	Age: 448hrs
Test Material:	Inlet to Res B	Organism Supplier: ABS	Age: 298h/S
Test ID#:	36426 Project #: 15239	Control/Diluent:	ЕРАМН
Test Date:	9/25/89 Randomization:	Control Water Batch:	1245
		Treatment:	Baseline #

	T	T									
Treatment	Temp	New 1	Old		(mg/L)	Conductivity (µs/cm)		# Live O	rganisms	00000	SIGN-OFF
Lub Water Control				New	Old		A	В			
	25.9	8.27		7.4		370	10	10			Date 9/25/09
50%	25.9	7.43		7.5		58 D	10	10			9/25/09 Test Solution Prep
100%	25.9	4.85		6.4		783	10	10			New WQ 75
											Initiation Time
											1650 Institution Signoff
											Sample ID
Meter ID	22 A	ph 03.		PDIA		E103					<i>3</i> 97 <i>73</i>
Lab Water Control	25.7	_	8.10	_	7.6	374	10	10			Date
50%	25.7		8.3A	-	7.3	583		e od			9/26/69 Test Solition Prep.
100%		<u> </u>		American Company of the	variation accords	hater and the control of the control	Ğ	0			New WO
	25.7		8.40		6.5	789	8	9			
											Renewal Time
											Renewal Signoif
											Old WQ LO
Meter ID	22A	-	7403	_	0013	Ec03					
Lab Water Control	240	8.00	8.01	8.2	7.5	306	10	10			9/7.7/09
50%	260	7.24	8.29	35	0.1	532	10	10			Test Solution Prep PA
100%	4.0	7:02	8.47	89	85	787	8	8		1	New WQ 720
							0	0			lenewal Time
											ienewal Signoff
											old WQ
Meter ID	22A	PH03	OH na	Poly							1814-
	T	-	8.50	mi	0013	BLOS					ale .
	26.0				72	357		10			9-28-09
	26.0		8,24		7.3	572	9	9			at Solution Prep
100%	96.0		8,34	-,	6,5	816	3	4			sw WQ
										R	mewal Time 0930
										Re	newal Signoff Ang
										Oi	dWO
Meter ID	72 K		1 409		004 1	દાબ					SV
				<u></u>	<u> </u>						

7 Day Chronic Fathead Minnow Toxicity Test Data

Client:	Prec	ision Analytica	<u> </u>	_	Organism Log#:	4789	_ Age:	248hre
Test Material:	I	nlet to Res B		_	Organism Supplier:		ABS	
Test ID#:	36426	Project #:	15239	_	Control/Diluent:		EPAMH	ϵ_{i}
Test Date:	9/25/09	Randon	nization:	- -	Control Water Batch:		1245	
			•		Treatment:	<u> </u>	Baseline	#/

-			. *				y #Live Organisms				T
Treatment	Temp (°C)	new p	old H	D.O. (mg/L) old	Conductivity (µs/cm)	A	#Live O	rganisms C	D	SIGN-OFF
Lab Water Control	25.9	8.13	7.82	Ma	7.4	306	8	10			Date 9/25/09
50%	25,9	7.12	8.15	8.4	7.6	553	a	8			Test Solution Prep
100%	25.9	6.43	8.39	g.1	フ・し	779	2	Ĭ			New WO JL
	ST THE ST										Renewal Tune 700
											Renewal Signoff
											OR MÓ WA
Meter ID	22A	РИоз	P# 14	P014	0012	<i>e</i> w3					
Lab Water Control	25.7		8-58	-	7.7	374	8	10			Date: 9/30/0 9
50%	25:7	-	१.3 0	-	7.4	595	フ	8			Test Solution Prep
100%	25.7	_	8.25	_	7.3	848	0	0			New WO
											Renewal Time /6 30
											Renewal Signoff
											Old WQ
Meter ID	224		pH09	-	DOH	BLOS					
Lab Water Control		7.54		5 73	6,9	320	8	10			10/1109
50%	25.0	7.36	ઉ;(પ	7.5	64	518	5	7			Test Solution Prep PA
100%	_	_					_	_			New WQ DA
											Renewal Time
											Renewal Signoff
											OH NO DED
Meter ID	724	PH09	1 1	DOR	ONV	Kury					
Lab Water Control			6.16		% 1	404	2	10			Date 10/0/09
50%	-15 .lg		9 .702		ba	Slot	\$	7			Termination Time
100%							_	_			
											Old WO 181A
Meter ID	34		PH 12_		ALIG	GCIT					

Fathead Minnow Dry Weight Data Sheet

Client:	Precision Analytical	Test ID #:	36426	•	Project #	15239	1
Sample:	Inlet to Res B	Tare Weight Date:	9/27/09	78.	Sign-off:	814	
Test Date:	9/25/09	Final Weight Date:	10/2/09		Sign-off:	Dep	
Trantment:	Raceline #1			-			

				a the second		the state of the s
Pan ID	Treatment	Replicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
1	Control	A	169.20	171.49	10	0.227
2		В	168 41	171.00 7	/0	MF 0.759
3	50%	Α	119.10	150.08	10	0.098
4		В	ري. 139	140.70	10	0.129
5	100%	Α	169.0]	161.05	10	<i>0</i> 004
6		В	136.39		10	
QA1			154.52	154.64		0.012
Balance ID:			IDAI	**************************************		

Client:	Pr	ecision Analyti	cal	Organism Log#: _	1398	Age:	(484
Test Material:		Inlet to Res B		Organism Supplier:	Enviro Sci		
Test ID#:	36461	Project #:	15239	Control/Diluent:	E	PAMH	
Test Date: 9	1/30/09	Random	ization:	Control Water Batch:	1248		
•				Treatment:	8:	aseline #	2.

Treatment	Temp	New:	H	D,O. (Conductivity (µs/cm)	2007/2009		zonisms.	SIGN-OFF
Blank	(°C)		Ota	8.5	Old		<u>A</u>	B		Company of the control of the contro
erica pagentalitati		321				313	10	10		9/30/09 lest coulén Prep
50%	The second second second	7.62		3.6		542	ାଡ଼	lĐ		25655 B 1
100%	15.7	7,32		8.4		782	10	p	1	
							12.2			
										22732 22732
Meter ID	- I	MH_		1293		<i>E</i> coΥ				
Blank	<i>15.</i> 6		7.94		7-1	340	10	(p		10/1/09
50%	15.6		9.4		ای. ٦	554	70	14		Count Time 1045
100%	256		8.46		Tr)	7/1/3	ιô	7€		Ceiliti Signoff Jew
				a particular	98					The Co
Meler ID	1716	Francisco de la constanta de l	排多		1013	1203				
Blank	25.7	1.98	7.81	7. 7	48	342	10	10		10/2/09
50%	25.7	7,30	9.15	8.0	7.1	517	10	Ø		Les Singeria Prep
100%	25.7	7, 67	8.37	8.3	7.5	713	10	9		NEW WO
										Residence Time / 8/5
		Participation of the Control of the					i –			Reserved Signoff
									Total San	ow N
Meter ID	22A	ده نزم	PHOZ	0013	ROD	Ec03				
Blank	25.1	Television School School	واها. (7.6	337	39	10		10/3/10
50%	25.6	1000000	8.16		7.5	641		10		Countine 1020
100%	25.6	A SAME AND A SAME	8.38		7.9	809	10	ণ		Comm Signoff
			10.5							ONIWO TO A
		7.0								
Meter ID	001		JIMZ	 	0. 10	F		1000		
MEET ID	226		oHOS		00 12	Ec04				

Client: _	P	recision Analyti	cal	Organism Log#: _	4798	Age:	$\leq Y$	86
Test Material:		Inlet to Res B		Organism Supplier:	Enico	Sc.		
Test ID#:_	36461	Project #:	15239	Control/Diluent:		ЕРАМН		
Test Date:	9/3005	Random	ization:	Control Water Batch:	12 78			
	* * * * * * * * * * * * * * * * * * * *			Treatment:		Baseline	#2	

Meler ID	124		PHOS		Dolf	RW.					
				a erke							Olli WO
100%	ე55		8.05		6.8	807	1	O	M.		IOIS Temperatur Signoff
50%	95.5				bil	567	4	Co			7echileadii) Taile 1015
Blenk	15.3	ح ا	料。日	CALL SHAPE OF THE	7.6	ટ્રાય ર	g	10			10/7/09
Meter ID	2004	2HB	dl09	Do B	D014	Ec.05					<i>3</i>
											OLWOZ.
											Renigral Signer
	CONT.		0. 22	コ・ビ		<u> </u>					Renaval Time.
100%			7176 8, 22		7.4	542 -51	7	78. 1			New WO
50%	and the second of		7.82	7.8	8.2	340		10			10/6/09
Meter ID Blank	1 100 100	K-10-00-00	ता <u>।</u> ११९२	-, ./	0013	tc03	9				Dije // /s-c
		615	<u>ال</u> الم	- Federal - Sa		17002					
											BH:
100%	23.3		8.44		1.2	928	H	4			Cristo Signof 4
50%	6 3		ତ୍ୟସ		7:3	576	1	9			Champarine 1545
Blank	25-3		7.84		8.0	.57to 399	19	10			10/5/09
Meter ID	777	PHIX	7H12	B ä≀4	2014	£ ६ ५ ३					.5#
											ดเลพีย์
				<u> </u>							Renaval Time V.G. 25 Kenaval Signor
100%	254	7,11	8.37	7,9	7.5	800	5				214
50%	254	7.8]		1,7	7.2	560	2	10 Yu	420		Test Solution Prop
Blaok	3 4	8.11	7.45	7.9	7.6	371	9	10			10/9/55
l learnenr	(°C)	пеж	old	new	old	(µs/cm)	A	В	C	D	SIGN-OFF
Treatment	Тетр	ř	H	D.O.	(mg/L)	Conductivity		*Live 0	हे होते होते. इस्ताहरू	T	SIGN-OFF

Client:	Precision Analytical	Test ID #: _	36461	Project#	15239	
Sample:	Inlet to Res B	Tare Weight Date:	10/0/09	Sign-off:_	DED	
Test Date:	9/30/09	_ Final Weight Date: _	10/11/09	Sign-off:	KR_	
Treatment:	Baseline #2		1 (

Pan ID	Treatment Replicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
	Blank A	164.84	167.55	Ю	0.271
2	В	174,23	177. 05	10	D.232 N
3	50% A	161.01	161,95	10	-0-085 0.094
4	В	1619	163.66	10	0.175
5	100% A	153.34	153.40	10	0.006
6	В	1607	Barry same and the second same and the second same	10	Adjusticing assistances or Nation Link his Nation
QAI		170.76	170.66		Ol
Balance ID:		#1	1		Jacob Marie San Control

Client:	Pr	ecision Analyti	cal	Organism Log#: _	4798	Age:	<u> 248 h</u>
Test Material:		Inlet to Res B		Organism Supplier:	Enviro	_جي.	
Test ID#:	36461	Project #:	15239	Control/Diluent:		ЕРАМН	
Test Date:	9/30/09	Random	zation:	Control Water Batch:	124		
	,,			Treatment:		pH 3	- A

Treatment	Temp	P			mg/L)	Conductivity		e Livo O	rginiane	S.	SIGN-OFF
	(°C)	New	Old	Now.	DIO.	(µs/cm)	A	В			
Blank		7:76		8.8	and the	518	10	10			9/30/09
The state of the s		7.45		8.7		822	10	(D)			Test Solution Prep
100%	25.7	7.28		8.6		1307	10	Q			PA
											MASO MOSO
											120
											Suling ≥ 1D
Meter ID	22 A	_१ भाम		poß		Ecoy					
Blank	25.6		7,97		7.0	533	10	10			16/1/09
50%	13.6		8.12		7-8	818	10	16			Company of the control of the contro
100%	25,6		8.23		าสา	320	7,0	סו			Count Signoff.
10.12											Part Control
Meter ID	12A		PHO		12013	Ein4				308.0	
Blank	25.7	7.20	8,02	8.9	7.5	547	10	/၁			Date: 10/2/09 The Solution Prep.
50%	25.7	7,22	7.89	8,4	7.4	850	10	10	1		Ko
100%	25.7	7.10	8.04	9.0	7.6	1367	6	9			THE THE
							10.5				Rinuwal, Time
											Retirial Signoff
										24	ONE VOICE OF THE PARTY OF THE P
Meter ID	22.4	PHOS	加田	5013	Puz	Eco3			all Sag		
Blank	25.6		7.72		7,4	582	(0)	9			10/3/0A
	23.6		8.02		7.7	485	10				Com Time 1070
	25,6		4,22		80	1328	5	5		KA:	Count Sipsoff.
											ON WO
	3									164	
			Miles (1-)	30 y <u>. 18. 5</u>		Fa 1750, 21856	ESSENT.				
Meter ID	77.4	a Party St	oH03		210 q	Ec04					e de la companya de l

. Client:	Prec	ision Analyti	cal	Organism Log#:	1798 Age:	484
Test Material:	.[1	nlet to Res B		Organism Supplier:	EngroSci	
Test ID#:	36461	Project #:	15239	Control/Diluent:	ЕРАМН	
Test Date: 💆	130/09	Random	ization:	Control Water Batch:	1248	
				Treatment:	pH3	

<u>jaman janggan di</u> Perendahan			A TOTAL STREET	Andrew States	all and the state of the state		 	and the second		
Treatment	Temp (℃)	nev.	eld Old	D.O. I	mg/L) old	Conductivity (µs/cm)	Α	A Live Opposism B C	iš D.	SIGN-OFF
Blank	25.7	7.32	7.94	7.0	7.3	506	9	8	71	Paris 10/1/20 PA 9/30
50%	75.4	7.75	7.99	8.0	7.5	840	9	10		
100%	257	7.77	8.17	8,0	7.3	#310 c	4	<i>y</i>		EKK
										Reserved Signal PA
										Reservat Signalit
										Sking Sk
MeterID	72A	- ≱12	ምሌ	88 14	D014	8C03				
Blank	15.33		7.76		7.1	591	9	Z.		[0[5]67
50%	<i>#3.</i> 3		7.89		7.3	874	8	10		1345
100%	33.3		8.25		7.2	134d	3	버		South Signot!
										Die WO BLE
The state of the s										
Meter ID	ma.		PH 12		DD 3_	<u> 5103 </u>				Difference is
Blank -	2019	7.40	#7.94	9.2	8.2		9	8		10/6/09
50% 100%			7.71		7.9	819	8	/O	s frequency	
100%	25.9	7.11	7.85	9.0	7.4]3 3	9	0		LQ Reserved Times
						100				1400
						2.00				PA-
Meter ID	22a	പ്ര	H09	56.2	D -11	Ecos				8~
Blank	15.0	Pute	8115	D013	7.6	537	Q	a .		Date 14-0/-1/A
50%	063 630	700	794	77777	7.3	382	1-1	<u>্</u> ব	in T	Termination Time
100%	-		μ · · ·			797	1			IOLS Terrinaution Signality
					er Walter	•				ulawo Sa- MM
				1000						MA
	Later 1									
Meter ID	224		PHIH		DOIL)	E033				

Client: Precision Analytical Test ID #: 36461 Project # 15239

Sample: Inlet to Res B Tare Weight Date: 10/6/07 Sign-off: DED

Test Date: 9/30/09 Final Weight Date: 10/11/09 Sign-off: 4R

Treatment: pH 3

Pan ID	Treatment Replicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
1	Blank A	10.10	172.26	lo management	PA 11/ 03/6
2	В	178.82	181, 63	10	ಲ ೯೯
3	50% A	153.19	154.74	(0	0:155
4	В	154,34	156.18		0.181
5	100% A	176,03			
6	B	531			
QA1		163.35	163.27		0.08
Balance ID:		#1	The state of the s		

Client	Precision Analytical	Organism Logs: 4798	Age: < 484
Test Material:	Inlet to Res B	Organism Supplier:	
Test ID#:	36461 Project #: 15239	Control/Diluent;	ЕРАМН
Test Date:	7/30/04 Randomization:	Control Water Batch:	18
		Treatment:	pH 11

Treatment	Temp		H	Henri	(mg/L)	Conductivity		# Lave O	rpentarija.	ava
	(°C)	New	Old	New	Old	(jus/em)	Ā	В		SIGN-OFF
Blank	⁷ 5;7	7.32		8.9	many to be a second to the second	674	10	10		Disk 9 / 30/04 Test Solution Prep
50%	25.7	7.92		8-2		972	10	סו		Test Solution Prep
100%	15.7	1,01		9.0		16(9	10	10		Par wo DA
										bisticites Time 1630
	154					and the second s				1630 Marijer Signor PA
	3.00									Sales in
Meter ID	72 A	PKIY		to is		Ø:o4				22772
Blank	% ,L		7,92	ر,,ر	7.6	1090	10	10		[a]]]09
.50%	15.6				ان ان ان	Analysis of separate application and the second	2			(COUNTERS)
100%	13, L		8.ଗ		16	98u) O		Count rine LO 4 S
	ا مرادا		8-13		1.0	l650	9	8		Comit Signoff.
						Salar Care				
Meter ID	14	Provide the state of the state of the	1403		D013	ÆB3				
Blank	25.7	3/2	7.95	9.1	7.1	741	10	10		10/2/09
50%	25.7	7.14	7.87	8.9	7.1	1010	10	10	Local Co.	Test Solution Prep
100%	25.7	7.01	8.09	0.f	74	1617	9	7		W BUX
										Recognist Tente 1815
										Removal Signoff
200										.Ω
Meter ID	22 <i>A</i>	Eung	7W0)	0013	Abij3	GC03				
Blank	25,6		7-13		7.8	726	10	10		10/3/09
50%	256		8.07		er eterrera	1027	9	G		Count Time
100%	236		822		ા.૪		8	2		IOCO Comission
			0.0		7.7	1 657				MAN TE
									2.0	
				-						
Meter ID	ml		PH 03		20 D	Eco4				

Client:	Pre	cision Analyti	cal	Organism Log#:	1798	Age:	<484
Test Material: _		Inlet to Res B		Organism Supplier:	Envio	Sci	
Test ID#:		_ Project #:	15239	Control/Diluent:		ЕРАМН	
Test Date:	9/30/08	Random	ization:	Control Water Batch:	1548		
				Trantmante		LT 11	

Tresiment	Temp	, p	Ĥ	D.Ö.	(mg/L)	Conductivity		*17/4/ ()	fennisins	p.	CION OV
1 teachteir	(°C)	wat	old	new	olđ	(µs/cm)	Α	В	C	D	SIGN-OFF
Blank	25.4	7.66	7,73	8.1	7.3	696	9	9			10/Y/25
50%	25.7	7.70	7.94	7.1	7.2	941	8	9			Ten Solution Prep
100%	25.4	7.6%	81.8	8.1	7.1	1607	¥	*c⇒			EUL
											Reviewal Time
											THE PLANE
											ON WO
MelerID	774	PHILE	Ph12	Pold	9014	<i>6</i> 603					
Blank	25.3		7.91		7.2	743	9	9			10/5/07
50%	111		7.98		7.1	୍ୟବ୍ୟ	8	9			Commitment 1945
100%	15.13		8.26		1.4	lea	1	Z			Chain Signoff Jow
											plawo EH
Meter ID	ti.	E-sale	pH12		1013	EC03					
Blank	B.6	בעב	7.51	9.0	7.4	689	9	9			19/6/04
50%	25.6	7.36	7.64	4,5	7.3	968	প্ত	9			THII SOLIZANI (1944
100%	25.6	8,26	7.91	8,9	7.1	1607					KAN WO KA
											Remail Time 1400
											PA PA
											WW 8-
Meter ID	ZZB	PHIZ	HO9	to13	pa4	Eco5					
Blank	263		7.51		7.1	721	9	9			10/7/09
50%	ರಿಕನಿ		7.00		70	1024	وًا ا	7			Templeabing Time 1015
100%	Q63		าคา		60	1617	0	O			Termination Sumplif
				100							MANA
Meter ID	22A		7H14		DOIY	<i>७</i> ७३		73.70		11000	

Client: Precision Analytical Test ID #: 36461 Project # 15239

Sample: Inlet to Res B Tare Weight Date: 15/10/9 Sign-off: DEP

Test Date: 9/30/09 Final Weight Date: 10/1/09 Sign-off: KR

Treatment: pH 11

Pan ID	Treatment Initial Pan Weight Replicate (mg)		Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
1	Blank A	186.34	159.61	10	0.32 70327
2	В	151.89	155.00	10	0.311
3	50% A	154.20	156.68	10	0.248
4	В	13978 151,20	152.65	[0	0.145
5	100% A	156.67		4-102	
6	B	Ы.27	8.	(
QA1		168.67	168.61		0.00
Balance ID:			da pilada da distributa a canada a canada gapingan da sanada a canada sanada sanada sanada sanada sanada sanad		

Client:	Precision Analytical	Organism Log#:_	4798 Age:	< 484
Test Material: _	Inlet to Res B	Organism Supplier:	enviro Sc	
Test ID#:	36461 Project #: 15239	Control/Diluent:	LA EVINITA	
Test Date:	9/30/05 Randomization:	Control Water Batch:	1277	
•	,	Treatment:	nH 3 Filterion	ya .

	1		and the second of	en de de de la secono	Charles and Charles	The state of the s	<u>-</u>	mey 3.55	ince a dise		The second secon
Treatment	Temp (*C)	New	Old .	D.O. I New	mg/L) Old	Conductivity (µs/cm)	Ą	B	COLUMN TO A		SIGN-OFF
Blank	257	7.71		86		520	PO	to			7/30/09
50%	75.7	7.40		3.6		959	10	le			Test Scalillon Pres
100%	25,7	717		7.8		1619	10	D			Niwwo PA
											#####################################
											Sample ID
Meter ID	22 A	The state of the s		Dorg		eto4					
Blank	16.6		יטרבר		7.7	532	10	Ø			Por /0/1/09
50%	15.C		8.09		9.[960	70	10			Committime 1045
100%	25.6		8.27		Ղ,5	1638	/0	9			Count Signor) Ow
											dawo 70
Meter ID	204		叶03	rate of the second of the seco	<u> </u>	EUB					Chile
A TOTAL TO POSITION	25.7		7.46	9.0	7.4	560	/0	10			10/2/69 Tes Soluku Fran
50%	23.7		7.89	8.7	7.6	869	10	9			Ko Ko
100%	25.7	7.05	8,14	8.9	74	1360	9	7	espera		EXX
											Renewal Time
MateralD		-11.0	01.00								
Meter ID Blank	25.b	p# 63	P.163 2:74	4013	208 2.8 4.0 ₁₄	E(03	10	c	24.201 24.201		h 10/3/bη
50%	23.6		FAY			1501 EG		9			Court Trans
100%	25,6		8.18 4.16	7045	77	953 696 px	10				Count Signoff
J	ي د	10-75-78-78 10-20-78-78-78	איננו		7-15	646- P		9			MUNO EQ
											H
					#15 TSV					1/840 (4	
Meter ID	2024		0H03		D13	C-rU	100				and the
MICIGLID	WU.A		ph 05 1		DOIS	Eco4		- 22			

Client:	Precision Analytical	Organism Log # :	1798 Age:	< 48h
Test Material:	Inlet to Res B	Organism Supplier:	Enviro Sci	
Test 1D#:	36461 Project #: 15239	Control/Diluent:	EPAMH	
Test Date: 9/	3d 09 Randomization: —	Control Water Batch:	1248	
		Treatment:	pH.3 Filtrati	ion .

		<u> </u>		31 101 1 AT 1	<u> </u>		- 1975 - 1975	Brance .	20) 201		<u> </u>
Treatment	Temp (°C)	p new	el old	D.O. (mg/L) old	Conductivity (µs/cm)	A 1	eLive () B	nginatana C	D	SIGN-OFF
Blank	254	7.84	8.13	7.9	7,4	545	× C	9			10/4/09
50%	25.4	7.74	8.01	8. %	7.4	853	10	q			74 Solution Prep
100%	25.Y	7,60	and the same of the	8.0	7.3	1375	9	Š			www.wq <i>EKL</i>
											CSS 1
											Estreya Signosti
											olawo S W a
Meter ID	27A	P#12	የክቢ	Balt	D0)4	<i>E</i> L03					
Blank	152)		7.74		1.2	698	10	9	a e		Jols Joes
50%	25. 3		7.92		7.2	904	10.	9			Count Tune 1345
100%	15,3		8.12		1.3	1242	9	_5_			Cross Signality A
						Tradition and the second secon					GIANT BIT
					1						
name of the second				*							
Meter ID Blank	752A		PH 12		P013	£03	7.	0			Dise_100
50%	2010	8.16_	7.67	8.2	7.9	501	10	9			10/6/09 Test Solution Prep PA
100%	العدد		7.63		7.5	4V5	7				Non WQ
	256	או,ר	7.74	4.0	7.4	1850	世	4			Kumawai Time
										A Section	1400 Removal Signoff DA
											Da Wo
Meter ID	228	4496	otton	5 013	D014	Ecos			10.0		<i>8</i> +
Blank	25:3		190	•	711	573	10	q			10/7/09
50%	25.5		Ta	7 0	2.4	864	9	9			Terminalism Time
100%	05,3		7,39		7-1	1394	7	4			IOIS Terremiler Signoff Six Gill WQ MOM
				355.00				1			olawo
Transcript 1			ersteam vije					Page			
7						3 6		777			
Meter ID	22A		and		Dort	१७५०					

Precision Analytical 36461 15239 Project # Test ID #: Inlet to Res B Tare Weight Date: DED Sample: Sign-off: Final Weight Date: 30/09 Test Date: KR Sign-off: pH 3 Filtration Treatment:

Pan ID	Treatment Rep	olicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
1	Blank /	۸	162,31	165.13	ID.	185.0 038C
2	I	В	15468	157.83	10	0.315
3	50%	A	174.32	176.86		0.25X
4	I	В	174.21	176.84	10	0.263
5	100%	4	172.16	174.16	10	0.200
6	ing g	B	159.66	1.60,75	10	0.109
QA1		4	19359	173.59		0.0
Balance ID:			事/	1		

Client:	Prec	ision Analytic	al .	Organism Log#: 478	Age:	448 hrs
Test Material:	<u> </u>	nlet to Res B		Organism Supplier:	ABS	
Test ID#:	36426	Project #:	15239	Control/Diluent:	ЕРАМН	
Test Date:	9/25/09	Rando	nization:	Control Water Batch:	1245	
	7			Treatment:	pHi Filtration	

T	Temp	p p	н	D.O. (mg/L)	Conductivity	# Nive O	rganisms	
Treatment	(°C)	New	Old	New	Old	(µs/cm)	A B		SIGN-OFF
Blank	259	8.21		7.0		368	10 10		9/25/09
50%	25.9	7.49		7.		577	10 10		Test Solution Prep
100%	25.9	7.21		7.1		785	10 10		New WQ AB
									Institution Time 1650
									Institution Signoff.
									Sample ID: 22772
Meter ID	22A	PH63		DOIL		ELOZ			
Blank	25.7	<u>-, </u>	8.12	-	6.1	373	10 10		Date 9/26/09
50%	Z5·7		8.28	-	7.1	570	10 10		Test Solution Prep
100%	25.7	3	8.49		6.9	782	7 10		New WO
									Renewal Time 1630
									Renewal Signo.[]
									OIA WO 9
Meter 1D	22A	k	PH03		10013	E003			
Blank	26.0	7.82_	8.13	9.6	8.2	370	10 10		Dale 9/27/09
50%	2640	7,41	8.29	9.5	8.3	<i>5</i> 57	,010		Test Solution Presp
100%	24.0	7.25	3.49	9.4	\$ 4.2	783	7-10		New WQ PA
									Renewal Time 1040
									Renewal Signoff: PA
									OITMO BIL
Meter ID	E 24-	PHOS	PH 091	PIOD	P013	5 005			
Blank	26.0		४,५५	-	7.9	3 83	10 10		Date 9-28-09
50%	26.0		8.22	_	4/1	58V	8. 9		Test Solution Prep
100%	26.0		8.54		63	815	38		New WQ
									Renewal Time 0930
									Renewal Signoff #18
									Old WQ SL
Meter ID	∂∂A	-	POHO		<i>17/17</i>	<i>20</i> 13			

Client:	Precision Analytical	Organism Log#: 4789 Age: 448 hvs
Test Material:	Inlet to Res B	Organism Supplier: ASS
Test ID#:	36426 Project #: 15239	Control/Diluent: EPAMH
Test Date:	9 25 09 Randomization: —	Control Water Batch: 1245
	<i>1</i> · · · · · · · · · · · · · · · · · · ·	Treatment; pHi Filtration

Blank 25.9 7.64 \$\frac{1}{5} \cdot 0 0 0 0 0 0 0 0 0 0	Treatment	Temp	ang 17,900 p. 100 p	H.	D.O.	(mg/L)	Conductivity		# Live O	ganisms		grav om
SOR 25.7 7.42 9.13 10.5 7.7 586 544 5 4 10.0	Heatment	(°C)	new	old			(µs/cm)	A			D	SIGN-OFF
100% 25.9 7.47 3.13 10.5 7.7 588	Blank				147 .	7.7		10	10			0/28/2#
Meter ID 22x F403 BHN Do 14 Do 12 EC03	50%	25.7	7.42	8.13	10.5	7.7	586544	5				Test Solution Prest
Meter ID 22A	100%	25,9	7.2(8.39	10.5	7.0		-	3			New WO 3
Meter ID 22 n P403 DANN Do 14 Do 12 EC03												1700
Blank 25.7 - 9.29 - 1.1 400 8 10 Due 9/30/09 Test Solution Page 100% 26.7 - 9.25 - 6.8 946 1 1 New WY New WY New WY N												Renewal Signoff
Blank 25.7 - 9.29 - 1.1 400 8 10 Due 9/30/09 Test Solution Page 100% 26.7 - 9.25 - 6.8 946 1 1 New WY New WY New WY N												old WO 18
100% 25.7 - 0.16 - 1.1 Q16 S 4 100% 25.7 - 8.25 - 6.8 Q46 1 1 Removal Jip 30 Removal Jip 40 Meter ID		P403			D012							
100% 25.7 - 0.16 - 1.1 Q16 S 4 100% 25.7 - 8.25 - 6.8 Q46 1 1 Removal Jip 30 Removal Jip 40 Blank	25.7		American market part of		7.1	406	8	10			9/30/09	
Meter ID 2211	50%	25.7		216	-	1.1		S	4			
Meter ID 22A	100%	25.7		8.25		6.8	976	1	,			
Meter ID 22A												Renewal Time 30
Meter ID 22/1												Renewal Signoff
Blank 25.6												Old WQ
50% 25.0 7.56 8.20 7.8 6.9 546 5 4 Test Solution Property 100% 25.0 7.59 8.41 8.2 6.9 7.69 0 0 Now WO PA Renewal Time / Coo Meter ID 22/4 24/09 1400 0012 1000 1204 Blank 25.6 8.31 7.3 849 8 /0 Date / 10/2/6 9 50% 25.6 8.30 7.6 \$7.7 5 4 Terminance Signoff 100% — — — Terminance Signoff 100% — — — Terminance Signoff 100% WO PA 100% — — — Terminance Signoff 100% — — — — Terminance Signoff 100% WO PA 100% — — — — Terminance Signoff 100% WO PA 100% — — — — Terminance Signoff 100% WO PA 100% — — — — — Terminance Signoff 100% WO PA 100% — — — — — — Terminance Signoff 100% WO PA 100% — — — — — — — — — — — — — — — — — —	Meter ID	22K	St name and transcount to	eH09		DOLA	Ecos					
100% 7.5 7.8 6.9 54 Test Solution Press 100% 7.5 7.5 7.4 8.2 6.9 7.6 0 0 New WO PA Renewal Signoff Ren	Blank		7.7-78	はは	7.9	69	358	8	10			Date 10/1/09
100% 21.6 7.53 8.41 8.2 6.9 7.69 0 0 Now WQ PA Reneval Time 16.00 Reneval Signoff Old WO DD Meter ID 22.4 24.09 14.09 Do 12 Do 1	50%	25.6	7.56	8.20	7.8		546	5	4			Test Solution Prep
Renewal Time* / Coro Renewal Signoff Old WO! DOD	100%	25.6	7.53	જ.4	8.2		769	0	0			New WQ PA
Meter ID 22 A 24 D9 Aktry D0 17 Aktry Blank 25.6 8631 7.3 899 8 10 Date 10/2/6 9												Renewal Time /600
Meter ID 21A 01409 1401 0012 0112 0124												Renewal Signoff
Blank 25-6 9-31 1-3 399 8 /0 Date 10/2/69 50% 25-6 9-30 7.0 57.7 5 4 Termination Signoff 100% — — — — — — — — — — Old WQ AM												OP MO DADO
50% Z-V 9/83 7.6 S77 5 4 Termination Signoff 100% Old WO RM	Meter ID	na	2409	1401	0012	9112	B124					
50% Z'V 9/83 7.6 \$7 5 4 Termination Signoff 100% — — — — — — Old WQ RM	Blank			431		7.3	399	8	10			Date 10/2/69
100% — Termination Signoff Old WQ AM	50%	75.6		8.83		7. 1	577	5	4			Termination Time
Old WO RM	100%			سن		_						Termination Signoff
March 1974 Ph. 1914 Colod												
Mars D. 1978 Police Dold 120 Pd												
March 1978												
Meter ID 228 PHIL PO 19 CC 04	Meter ID	72 TA		P#12		PO 1 9	CC 04					

Client:	Precision Analytical	_ Test ID #: _	36426	Project#	15239	
Sample:	Iniet to Res B	Tare Weight Date:	9/27/04	Sign-off:		
Test Date:	9/25/09	Final Weight Date:	10/7/19	Sign-off:	DED	
Tuestante	nHi Filtration	-		- <u>-</u>		

Pan ID	Treatment	Replicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
1	Blank	A	191.48	183.41	10	0.201
2		В	BIT 150-53 150:43	154,23	10	0.104 0,380 0.104 0,142
3	50%	A	159.21	60.7	10	0.104 0.11Z
4		В	149.12	50.39	£ D	0.123
5	100%	A	BH 178-8-17832		10	
6	94	В	175.10		10	
QA1			150.91	15 6.91		0
Balance ID:			10 71			

Client:	Precision Analytical	Organism Log#: 479	Age:	<48h
Test Material:	Inlet to Res B	Organism Supplier:	o Sci	
Test ID#:	36461 Project #: 15239	Control/Diluent:	EPAMH	
Test Date:	9/30/89 Randomization:	Control Water Batch: 12 4		
		Trealment:	nH II Filtratio	n

Treatment	Temp		H		mg/L)	Conductivity			ricardane	FARLS MILES	SIGN-OFF
<u>, a para ser ada ser an dinangkal mangkal di</u> Tangkal kanggal menangkal mengkal dinangkal serias	(°C)	New	Old	Neu	Old	(µs/cm)	A	В			kita i da kajar kalendarija
Blank	25.7	7.24		8.7		493	10	10			Duis: 9/38/09.
50%	7£7	7.70		8.8	44.7	942	GJ	10			NEW WE GO
100%	257	7.00		9.0		1598	10	ro.			PA PA
											Eliteration /630
											Inclination Signature PA
											がweiD スマラデス
Meter ID	724	PHI4		7013		ZoY					
Blank	3,6		7.93		וור	524	10	lo			16/1/bea
50%	25.6		8,14		7.4	973	10	D.			104 (
100%	25.6		8.23		7.3	1619	8	9			Cream Signoff Jow
											ming de
											(17)
Meter ID	22A	SICHOTZANA ISSESSOR	14103	期 3	COB	FC03					
Blank	25.7	7.06	7.92	9.0	7.2	550	8	10			Dolle: 10/2/09. Test Solution Prep
50%	25.7	7.06	7.90	8.8	7.4	1628	10	10			Ko
100%	25.7	6.45	6,14	4.0	7,2	1646	8	9			EUL
											Required Time 1815
				de la							thenewal Signoff
											一
Meter ID	22A	EOHq	2H05	DOIS	DOB	EC03					
Blank	25.6		7.85		7.5	575	8	10			1013/09
50%	25,6		ુ,(V		7.7	1065	ID	σ۱			Count Time 1020
100%	286		4.52		7.5	1764	4	6			County Signoff
											0/140 Jeb
			90								
		1000	# (# (# (# (# (# (# (# (# (# (# (# (# (#	V 105				ly a		A CONTRACTOR	
Meter ID	ns	uwa nakata i	dles		0912	Eco4					

Client;	Precision Analytical	Organism Log#: 479	B ARE CYBL
Test Material:	Inlet to Res B	Organism Supplier.	OURCE Se
Test ID#:	36461 Project #: 15239	Control/Diluent:	EPAMH
Test Date:	730/09 Randomization;	Control Water Batch: 12	18
v:		Treatment:	nH II Filtration

and the second second second			TO THE STATE OF TH	- 1000 - 1000 - 1000 - 1000 - 1000	- Rote to Late - La			No. 100 Company	pH 111	September 1997 Septem
Treatment	Temp (°C)	new	HI old	D.O. (Conductivity (µs/cm)		# Live Organism		SIGN-OFF
Blank		12.		new	old		A	ВС	. 5	B. William Co. Co.
Taga error a servicia de la California d	25.4	7.66	7.76	7.9	7.1	5२५	8	/o		10/4/09
50%	25.4	7.61	7,94	7.7	7.]	4414)0	- 194 200 minutes		
100%	25,4	7.57	8.23	8.0	7.2	1343	3	3		NEW WQ
								7.4		Berewal Time 1628
										Religion Signor A
							-			Dailya T
Meter ID	220-	PHIL	781 <u>7</u>	Poly	אמס	<i>E</i> co3				8/4-
Blank	25")		8.06		7.3	570	9	70 E		Pall 10/5169
50%	43.73		7.94		7.2	106	100	ĮD.		Cross Time 1345
100%	25/3		9.23		7.3	A CONTROL OF THE PERSON OF THE	and the same of th		36.7	Cossel Signoff
and the second second	CA /				1.0	173 5 e				
			-							PW 8H
7.00				V. II. Ti						
Meter ID	北林	transfer of the second	ph12	aptipus and an action of the second	b 013	EC03				
Blank	7).b	825	7.66	% 7	4 7	525	8	原 発 つ		10/6/09
50%	2540	7:34	7.67	8.4	7.4	1040	9/10	1 5		PÀ
100%	254	ها2.3	791	જાલ	7.0	1755_	0	ව 💽		*****Fl
										Noo
										Remuwal Signoff
										onivo 8n
Meter ID	27.04	phiz	pHO9	poi3	D014	EC65				Newspaper of the second
Blank	25. 3		2.00		49	584	d	io les		10/2/ca
50%	253	V	7,90		7,0	1030	4 (V)	0 G		Painington Inse
100%	963						_	_ U		IOIS Termization Signati
	3 0.7		l f	200		72.0				Tembayen Sendi One wo Kan
			Best Bast St	.,						KRN
Meter ID	Q2A		1		DOM	EW3				100

Client:_	Precision Analytical	Test ID #:	36461	Project #	15239
Sample:	Inlet to Res B	Tare Weight Date:	10/6/09	Sign-off;	DEO
Test Date:	9139/09	_ Final Weight Date:	10/11/09	Sign-off:	KR
Treatment:	pH 11 Filtration		1 1		

	· · · · · · · · · · · · · · · · · · ·	<u> </u>	agestus sur a or	and the second presentation and a second	NOT SECURE A PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS.
Pan ID	Treatment Replicate	Initîal Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
	Blank A	137.17	131,27	Ø	6.210
2	B	156.30	159.34	10	0.304
3	50% A	P3.42	175.88	10	0.246
4	В	166.20	168 - 71	10	0500,251
5	100% A	171.17	(R 1-77++-	*O	
6	В	160.76		ıρ	
QA1		151.49	151.39		0.1
Balance ID:		Annual management and a second	1		

Client:	Pre	cision Analytica	1	Organism Log#:	Age:	149 h	
Test Material:		Inlet to Res B		Organism Supplier:	ABS	_	
Test ID#:_	36426	Project #:	15239	Control/Diluent:		ЕРАМН	
Test Date:	9/25/09	Randon	ization:	Control Water Batch:		1245	
				Treatment:		pH3 C18 SPE	

Treatment	Temp	р	H	D.O. (mg/L)	Conductivity		# Live Or	zanisms	
1 (Carther	(°C)	New	Old	New	Olđ	(µs/cm)	Α	В		SIGN-OFF
Blank	25.6	6.87		7.8		528	10	10		Date 9/25/09
50%	25.6	7.45		7.9		837	10	10		Test Solution Prep
100%	25.6	7.21		8.3		1304	Ю	Ø		New WQ #B
										Initiation Time 1875
										Initiation Signoff
										Sample (D. 20-772
Meter ID	27A	PH03		p013		BELOU				
Blank	26.0		7.63	_	7.2	548	9	10		Date 4/26/09
50%	26.0		7-85		7-9	, ୫୫୬	10	õ		Test Solition Prep
100%	26.0		7.74		的人	1364	10	10		New WO
										Renewal Time 1740
										Renewal Signaff
										Old WO
Meter ID	Z28	_	7403	_	DO 13	Ec03				
Blank	25.9	6.84	7.90	9.6	7,0	538	9	10		Paie 9. 1 .71.09
50%	25.9	4.75	7.59	9.4	1,5	934	910	10		Test Solution Prep
100%	75.4	6.74	7.54	9.4	7.1	1333	10	10		New WQ BUX
										Renewal Time / 400
										Renewal Signoff
										Olewo کی Olewa
Meter ID	wA	рНи	PH 09	\$ 014	00 3	ECOY				
Blank	260	_	4.57	_	6.0	571	9	10		Date 9-28-05
50%	26.0	_	7.49		7.1	1150	9	10		Test Solution Prep
100%	26.0		7.49		7.2	1397	10	10		New WQ
										Renewal Time
										Renewal Signoll
										он мо
Meter ID	221		P1 419		9012	ଟଠଚ				7/1/

Client: _	Prec	ision Analytic	al	Organism Log#: 4799	Age:	<48 hr
Test Material: _	I	nlet to Res B		Organism Supplier: ABS		
Test ID#:	36426	Project #:	15239	Control/Diluent:	EPAMH	
Test Date:	9/25/09	Rando	nization:	Control Water Batch:	1245	
_				Trealment:	pH3 C18 SPE	

	· ·	pi di anaha i			t		-				1
Trealment	Temp (°C)	new p	H old	D.O. (mg/L) old	Conductivity (µs/cm)	A	# Live O	rganisms C	D	SIGN-OFF
	the Charles	F				S SHOWN SOME STATE OF THE STATE	9				Date Of the second
Blank	15.9	7.80	8.10	90	7.8	552		10			Test Solution Prep
50%	25.9	7.69	7.66	8.6	7.5	808	9	9			300 J
100%	25.9	7. 59	7.55	8.7	7.3	1317	19	16			New WQ
											Renewal Time 1715
											Renewal Signoft
											Oid WO
Meler ID						U					· 6~
<u> </u>	22A	PH 14	8.19	Do 12	7.3	EC 04	9				Date 9/30/20
Blank	25.7		I		Same comments	606	 	10			7/30/09 Test Solution Prep
50%	25.7		7.90		7.0	888	9	9			
100%	25.7	 	7.70		6.6	1394	9	10			New WQ
											Renewal Time 1700
											Renewal Signoff
											old WO
Meter ID			शीज		DOIH	EUOS					<i>.</i> ~~
Blank	22A 25.6			7,6		529	*				Date 10/1/09
		70	802		6.4		4	10			Test Soluting Prep
50%	25.6	1 +, 44	\$7.70	7.8	66	814	9	9			New WQ ZQ
100%	25.4	7.31	7.60	7.9	6.4	1311	9	9			1
											Renewal Time 1530
											Renewal Signoff
											old WQ DFD
Meter ID	21x	7409	D b/7.	70 12	phog	1/20U					100
Blank	25.6		79		(v.0	575	8	9			Date 10/2/09
50%	25.6				A .	D.C.C.	9	1 Qr			Termination Time
·			7.67		10 - 7	1577					100 Termination Signoff
100%	25/0		<u> 18)</u>		0.2	1011	9	9			
											Old WO
Meter ID	m		DH 12		DO 14	BC04					
	-Li	1-121-161-161-161-161-161-161-161-161-16		orientification in							

Client:	Precision Analytical	Test ID #:	36426	Project #	15239	
Sample:	Inlet to Res B	Tare Weight Date:	9/0/09	Sign-off:	B1 1	
Test Date:	9/25/29	Final Weight Date:	10/7/09	Sign-off:	DED	
Trantment:	nH3 C18 SPE					

Pan ID	Treatment Replicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
1	Blank A	181.2	183.34	10	D. 213
2	В	163.18	165.97	(0	0.239
3	50% A	181 151	183.77	10	0.262
4	В	172.13	17455	ļ ļo	0.242
5	100% A	166.45	168.71	10	0.726
6	В	180.92	183.31	10	6.2300
QAI		168.85	168.84		0.01
Balance ID:		ID # I			

Client:		Precision Analytics Inlet to Res B	ol	Organism Log#: 47	89 Age: <u>248 km</u>
Test ID#:	36426	Project #:	15239	Organism Supplier: Control/Diluent:	EPAMH
Test Date:	9/25/0	Randor Randor	nization:	Control Water Batch:	1245
	' '			Treatment	pHi C18 SPE

	Temp		H	D.O.	(mg/L)	Conductivity		# Live O	maniran	S. In property of the	
Treatment	(°C)	New	Old	New	Old	(µs/cm)	A	B			SIGN-OFF
Blank	25.8	7.73		7.5		343	10	10			9/25/09
50%	25.8	7.61		7.9		542	10	10			Test Solution Prep
100%	25.8	7.53		8.0		707	10	10			New WQ ADS
											Initiation Time
											Initiation Signoff
											Sample ID
Meter ID	27A	Eakld.		Do125		Ecoy					32//2
Blank	25.7	•	8.09	•	6.0	371	٥١	10			Date 9/26/89
50%	25∙7		8.33	_	7.5	575	10	10			Test Solution Prep
100%	25.7		8.42		7.5	784	10	10			New WQ
											Renewal Time 1030
											Renewal Signoff
											Old WQ
Meter ID	22A		7H03	-	1013	Ec03					
Blank	24.0	7.96	8.12	9.3	7.9	371	10	10			Date 9/27/09
50%	26.0	801	8.16	9.3	7.6	556	10	ાં			Test Solution Prep
100%	26.0		3.15	9.6	7.7	798	10	10			New WQ PA
											Renewal Time
											10 YO Renewal Signoff PA
											Old WQ
Meter ID	27A	Pt/63	p409	\mathcal{D} OIY	BICA	Elos					811
Blank	24.0		8.35		80	401	10	10			Date 9-28-09
50%	24,0	_	8.14		6.5	570	10	10			Test Solution Prep
100%	26.0	_	8,28	-	6,2	823	10	10			New WQ
						-					Renewal Time 0936
											0936 Renewal Signoff
											Old WQ SV
Meter ID	<i>466</i>		POKQ		PIOR	EWY					

Client:	Precision Analytical	Organism Log#:_	4789 Age: 448hvs
Test Material:	Inlet to Res B	Organism Supplier:	ASS
Test ID#;	36426. Project #: 15239	Control/Diluent:	ЕРАМН
Test Date:	9/25/09 Randomization:	Control Water Batch:	1245
		Treatment:	pHi C18 SPE

Treatment CC		- I	pl	and the second second	D.O. (-nd \	Conductivity	english et energie en	# live 0	rganisms	 V Western .
Shark 15.9 7.64 7.00 7.06 10 10 10 10 10 10 10	Treatment	r - 1	2 11				(µs/cm)				 SIGN-OFF
100% 25.9 740 9 10.3 7.1 794 9 10 8.00 171	Blank	25.9	7.64	7.40	10.6	ს .¬	367	10	10		7/29/09
100% 25.9 740 9 10.3 7.1 794 9 10 8.00 171	50%	255	7.84	8,09	11.2	7.0	580,546	10	10		~
Meter ID 72A PHO3 PAIN DAY DAY DAY DAY PAIN AGA AGA TO TO MAKEN TO AGA T	100%	25.9	1.40	8.34	10.3	7.1		9	10		
Meter ID 72-A PH03 PM Day DM DAY DA											17,600
Meter ID 72.4 PHO3 PAIN DOY DIN ECOS DIE 1/30/09 TES Column Prop TES Column Prop DOS 25.7 PHO9 PON PAIN PA											814
Blank 25.7 — 8.24 — 5.8 447 /0 /0 Pet Solvice From 100% 25.6 — 8.24 — 5.8 447 8 /0 Pet Solvice From 100% 25.6 — 8.24 — 9.00 — 6.4 847 8 /0 Pet Solvice From 100% 25.6 — 8.24 — 9.00 — 6.4 847 8 /0 Pet Solvice From 100% 25.6 — 9.00 — 7.0 % 5.4 % 6.4											orawo 48
Blank 25.7 — 8.01 — 6.2 6.73 /0 /0 textSolution Prop. 100% 25.7 — 9.00 — 6.4 847 8 10 Removal Timer 16.30 Removal Support 100% 25.6 7.84 7.05 7.0 7.1 367 10 9 25.6 7.84 7.05 7.0 8.5 7.8 7.0 10 Removal Support 100% 25.6 7.84 7.05 7.0 8.5 548 /0 10 100% 25.6 7.84 7.05 7.0 8.5 548 /0 10 Removal Support 100% 25.6 7.84 7.05 7.0 8.5 548 /0 10 Removal Support 100% 25.6 7.84 7.05 7.0 8.5 548 /0 10 Removal Support 100% 25.6 7.84 7.05 7.0 8.5 548 /0 10 Removal Support 100% 25.6 7.84 7.05 7.0 8.5 548 /0 10 Removal Support 100% 25.6 9.15 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Meter ID	22A	PHO3	to the contract of the state	Dary		ecos				
100% 25.7 8.01 6.4 847 8 10 See Mg	Blank	23.7	-	1777 Taran			447	10	10		4/30/09
Meter ID 224 PHO 9 NOT DOL ELOY	50%	25.7		8-01		6.2		/0	10		Source and the second s
Meter ID 124	100%	25.7		9.00	-	6.4	847	8	10		
Meter ID 27A - pHe											Renewal Time /630
Meter ID 2/2A — pHo 9 — DOIH ECOS											
Meter ID 274 - pHo 1 - pO 4 EcOS											OI9 MO
Blank	Meter ID	22A		PH09		POH	Ecos				
100% 25.6 7.78 8.06 7.06 8.15 59 8 70 70 70 70 70 70 70	Blank	25.6	7,84	7,95	7,6	7.1	357	10	9		10/1/09
100% 25.4 7.00 8.13 7.8 8.4 7.75 8 70 Renewal Time /6 00 Renewal Signal	50%	25.6	7.45	8 06	7,6	6.5	548	10	10		PA
Meter ID 224 Prio 9 Mog Poi2 Dott ELOY	100%	25.60		8:33		0,4	775	8	10		New WQ PA
Meter 1D 224 PHO 9 Aug PD12 Dore ELOH Blank Z5.6 9.25 G.B 893 10 9 Date 10/2/0 9 50% 25.6 9.25 G.A 864 10 10 10 100% 25.4 MARKES M											16.00
Meter ID 224 Prto 9 Auo 9 To 12 Dorl FLOY Blank Z5.6 8.25 6.4 893 10 9 Daie 10/2/0 9 50% Z5.6 8.25 6.4 804 10 10 10 100% Z5.6 8.25											Renewal Signoff
Meter ID 224 Prto 9 Auo 9 To 12 Dorl FLOY Blank Z5.6 8.25 6.4 893 10 9 Daie 10/2/0 9 50% Z5.6 8.25 6.4 804 10 10 10 100% Z5.6 8.25											OId WQ DO
Blank 25.6 9.23 6.8 893 10 9 Date 10/2/09 50% 25.6 8.25 6.4 Stell 10 10 10 Termination Time 100% 100% 25.4 Works 5 Most 8 10 9 Termination Signoff 4.47 5.47 5.47 5.47 5.47 5.47 5.47 5.47	Meter ID	ng	PHO9	duce	17°012	007L	ELOY_				
50% 25.6 8:25 6.4 \$64 10 10 Termination Time 100% 25.4 WORLD S	Blank	25.6				27	893	10	9		10/2/07
100% 25.4 WORLD STONE WORLD STONE ON THE ONLY BY	50%	25.6		8:25		6.4		10			Termination Time / 00
CI CONTINUE BA	100%	25.4		OVER	15	10814	664	8	10		Termination Signoff
							34			***************	or BM
							Û				
Merrin and and and and and and and and and an											
I make to the respective fully respective with a law is respectively considered by the construction of the	Meter ID	22A		017()		00 V V	9UF 4				

Client:	Precision Analytical	Test ID #: 36426	Project#	15239	
Sample:	Inlet to Res B	Tare Weight Date: 0 27 09	Sign-off:	8#	•
Test Date:	9/35/69	Final Weight Date: 10 7 09	Sign-off:	DED	•
Treatment.	niii C18 SDE				•

Pan ID	Treatment Replicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
1	Blank A	163.62	166-65	/0	0.29 303
2	В	W17-176.97	180.03	10	0 311
3	50% A	[6].7]	88.14	70	0.317
4	В	176.44	179.27	10	0.283
5	100% A	182.96	185.55	10	0.7.59
6	В	186 .45	189.5	61	0.306
QA1		183. \	183.22		0.07
Balance ID:		D Ħ I	1		

Client:		cision Analytic	al	Organism Log#: 4789	Age: LU8hr
Test Material:		Inlet to Res B		Organism Supplier:	ABS
Test ID#:	36426	Project#:	15239	Control/Diluent:	EPAMH
Test Date:	9/25/09	Rando	mization:	Control Water Batch:	9 1245
				Treatment:	PHA CIS SPE

							Treatment:			рНИ (CIODIE
o and the company of							3 3			XB.	
Treatment	Temp	p			mg/L)	Conductivity (µs/cm)	<u> </u>	# Live O	ganisms		SIGN-OFF
<u> </u>	(°C)	New	Old	New	Old	(pacin)	<u> </u>	В			talente de la companya del companya de la companya del companya de la companya de
Blank	25.8	6.96		8.1		397	10	10			Dale 9/25/09
50%	25.8	7.25		7.6		692	10	10			Test Solution Prep
100%	25.8	7.05		8-1		1013	10	10			New WO AB
											Intrakon Time 1820
											Intuation Signoff Ko
											Sample 10: 22772
Meter ID	22A	DH83		D013		Ecol					
Blank	25:9	-	7.76	_	າ. ໐	125	ΙÞ	ιĐ			9/26/09
50%	25.9	-	8.17	1	7.8	712	10	10			Test Solution Prep
100%	25.9	is and the second	8.23		7.5	J630	9	10			New WQ
											Receival Time
											Reneval Signoti
											Ole Wood A
Meter ID	22A	1	Soft.		Dol3	EL 03					
Blank	25.4	6.86	7.98	4, %	7.60	414	10	b			Pale 9. £7.09
50%	25.9	6.84	7-86	9.7	6.8	73L	10	10			Test Solution Prep
100%	25.9	6.75	8.19	٩.٦	7-1	1025	9	10			New WQ FKL
											Renewal Tune 1250
											Renewal Signoff
											old WQ PE
Meter ID	27 A	рни	pttog	DOIY	2013	БC04					
Blank	26.0		7.97		6.4	437	10	10			Pale 9-28-09
50%	26.0		7.08)	_	6.6	737	10	10			Test Solution Prep
100%	26.0		1.85	_	6.3	1049	9	10			New WQ.
											Renewal Time
											Renewal Signost
											OIG MÓ BA
Meter ID	Sar		pit 14		2100	GC03					, <u>, </u>

Test Date:				cision Analy			Organi	ism Log#:	<u> 47</u>	89	Age:	248Hrs	
Treatment													
Treatment Temp pH B.O. (mg/L) Conductivity Live Open later D SIGN-OFF							•						
Treatment Trea				-									
Blank 24.00 7.80 6.00 9.2 7.5 7.1 1015 9 8 10 10 10 10 10 10 10	<u> </u>		Mic Statement and a control		/////////////////////////////////////				23,000.00		_kg		
Blank 24.0 7.80 8.00 9.2 4.5 42.6 9 9 7.85 9.21 7.85 9.04 9.0 7.14 1015 7 8 1.00	Treatment		CALL IN RECOGNICATION SERVI				Conductivity (us/cm)				r _	SIGN-OFF	
Blank 14.00 7.80 8.00 9.2 7.5 72.4 9 9 9 9 9 1/21 7.5				4 Sept Land No.	kan mananan merebah	arraer - serenjahiji 40%	Face States and States and the state of the	COCCOME	Contraction of the			Disc	
100% 26D 7. 9 + 4C 9. 9 + 7. 1015 9 8 Now W	<u> </u>	26/20	7.80	8.00				9	9			9/27/09	
Meter ID 22A PH 14 Phone Po 12 Doi? Fe of Shared Significant Phone	50%	240			Mary Prince	4.2	659	344 to \$ 146 to 1 to 100	2000000			ジ ヒ , ,	
Meter ID 22.4 PH 17 PHOR DO PZ DO TS Ex O Y	100%	262	7.65	8.04	9.0	7,1	1015	9	8			₩	
Meter ID 22,00 PH 17 PHOR DO 12 DO 13 Ex. 04 Blanck 25,7 - 8,14 - 7.00 447 8 9 Dot 2 Phor 2 Phor 3 P												1730	
Meter ID 22A PH 14 pHoq DO PZ DOIS Ex 04 Blank 75.9 — 8.14 — 7.0 447 8 9 50% 75.9 — 7.87 — 6.3 733 DO 10 Test Solution Prep: According TBO Removed Signoff T ON WO Meter ID 72W — PHO9 — DO14 ECOS Blank 15.4 7.02 7.85 10.0 68 451 8 9 50% 25.7 7.17 8.04 9.6 6.8 685 10 10 Test Solution Prep EM Removed Signoff T ON WO Meter ID 72LA PHO9 DA DO12 DO12 Ecos Blank 25.6 5.6 5.4 6.8 685 10 10 Removed Signoff T ON WO Removed Signoff T Removed Signoff T ON WO ON WO VO VO VO VO VO VO VO VO VO												Renewal SignoII	
Mater ID 22A PH 14 Phaq Do 17 Do 15 Ex 04												Old WO	
100% 75.9	Meter ID	22A	PH 14	pHoq	DO 12	כוסם	E. 04						
100% 16.9	Blank	25.9		8.14	,	7.0	447	8	9			9/30/09	
100% 16.9	50%	75.9	_	7.87	-	6.3	733	b	10			Test Solution Prep	
Meter ID 1244	100%	16.9	-	7.87	•	The second second second	1093	9	4				
Meter ID												Renewal Time 1790	
Meter ID 12 17 18 18 18 18 18 18 18												Renewal Signoff	
Meter ID 1214												ORMO	
Blank 25.4 7.82 7.86 10.0 68 451 8 9 Date 6/1/09. 50% 25.4 7.19 1.64 9.6 685 10 /0 Test Solution Prop Edice. 100% 25.4 7.09 8.88 9.7 (1032 9 8 New WO Back Renewal Time /2.40 Renewal Signoff Meter ID 72.47 pt 09 04 69 ao12 05/72 Ec.05 Blank 25.6 5.46 743 8 9 Date 10/2/09 50% 25.6 6 7454 601 713 10 9 Termination Time // 00 100% 25.6 8.67 8.07 5.7 1068 9 8 Termination Signoff Cold WQ LQ	Meter ID	Un	-	PH09	<u></u>	₩	Ecos						
100% 25.4 7.19 1.04 9.6 6.8 6.8 10 10 10 10 10 10 10 1	Blank	۲5.4	7,⊗হ	7.86	18.0		8***** # * * * * * * * * * * * * * * * *	8	9			Date 6/1/09	
100% 25.4 7.04 6.08 9.7 (1032 9 8 New WO But 172.70 Renewal Signoff	50%	25.4	7,19				685	ter entre and the	10			Test Solution Prep	
Renewal Time 12-40 Renewal Signoff 1	100%	25.4	7.64		9.7		1032	9	8			New WO	
Meter ID ZLA pH 09 pH 09 a 012 D6\7 Ec 05												Renewal Time	
Meter ID 22 A p μ ο 9												Renewal Signoff	
Meter ID ZLA pH 09 QH 09 Qo 12 Qt 17 Ec 05 Blank Z 5.6 EA Ec Ec Ec Ec Ec Ec Ec												OldWO	
Blank 25.6 54 743 8 9 Date 10/2/09 50% 25.6 643 61 713 10 9 Termination Time 1/00 100% 25.6 8.07 5.7 1068 9 8 Termination Signoff Old WQ VQ	Meter ID	22.A	Po 4g	d+ 69	001	Di 12	Eco5					עטע	
50% 25.6 7.93 61 713 10 9 Termination Time // 00 100% 25.6 8.07 5.7 1068 9 8 Termination Signoff Old WQ V.Q								Q	9			Date 12/2/20	
100% 25.6 8.07 5.7 1068 9 8 Termination Signoff Cold WQ VQ	50%	25.6		7.93								Termination Time	
Die WQ Y_Q	100%			BATTER					9			Termination Signoff	
				<i>ō</i> .) ,		5.	עטטן		0			OI4 WO	
												ΥŲ	
A CALL TO BE AND RECOGNISHED AND RECOGNISHED AND A RECOGNISHED AND A RECOGNISHED AND AND A RECOGNISHED AND A RECOGNISH AND A REC													
Meter ID 220 PH14 DOH ECOH	Meter ID	2418		PHIH		DO 14	EC.04						

Client:	Precision Analytical	Test ID #:	36426	Project #	15239	
Sample:	Inlet to Res B	Tare Weight Date:	9/28/09	Sign-off:	DO	
Test Date:	9/25/09	Final Weight Date:	10/7/09	Sign-off:	DEP	
Treetment	DHN CIR SPE					

Pan ID	Treatment Replicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
i	Blank A	172.85	175.00	10	0.215
2	B B	159.67	161.98	10	3 130 0.231
3	50% A	145.10	147.90	10	0.230
4	В	160.55	62.82	.10	
5	100% A	167.40	17 FP 169 93	/ 0	0.253
6		172.62	174.92	10	0.230
OA1		168.38	168.41		0.03
Balance ID:		#	*1		

Client:	Prec	ision Analytic	al	Organism Log#: 4789	Age: 24	የ ክረ
Test Material:	Į.	nlet to Res B		Organism Supplier: ABS		<u> </u>
Test ID#:	36426	Project #:	15239	Control/Diluent:	EPAMH	
Test Date: _	9/25/09	Rando	mization;	Control Water Batch:	1245	
				Treatment:	pH3 Aeration	

	grand to the grand of		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 	<u> </u>	T				
Treatment	Temp (°C)	New	Old	D.O. New	(mg/L) Old	Conductivity (µs/cm)	A	# Live C	Organisms	SIGN-OFF
Blank	25.6	7.35		8.2		586	10	10		Date 9/25/09
50%	25.6	7.59		8.3		809	10	10		Test Solution Prep
100%	25.	7.24		8.3		1232	10	10		New WO #8
										Initiation Time 1815
										Initiation Signoff
										Sample ID
Meter ID	22A	PHIS		D013		ECOY				
Blank	760		7.64	and pro-thickness is	7.S	602	10	10		Dales 9/26/09 est_
.50%	26.0		7-72	-	8-23	811	10	10		Test Solution Prep
100%	26.0	-	7.45	-	J. 2	1257	0	, D		New WQ
										Renewal Time
										Renewal Signoff
										od wo get.
Meter ID	77A	_	भि 03		DO 13	E03				
Blank	25.9	6.84	7.03	8.6	7.2	6.56	10	9		Date 9, 27.04
50%	س يج	6.86	7.73	8.8	8.	960	jo	10		Test Solution Prep
100%		_	_	_	_			-		New WQ
										Renewal Time 1400
										Renewal Signoff JPL
										Old WQ Le
Meter ID	200	PHII	PHOA	Bo 14	10 B	ELOY				
Blank	260	•	7.47		1.3	656	10	7		Date. 9-28-09
50%	86D		1.34	-	45	920	10	10		Test Solution Prep
100%		_			_	_		_		New WQ
										Renewal Time 1020
										Renewal Signoff
										Old MÓ BIF
Meter ID	29K	-	PIT IT	-	po 12	हिएक				

Client:	Pr	ecision Analytic	<u>al</u>	Organism Log#: 4789	Age:	648 hc
Test Material:		Inlet to Res B		Organism Supplier: ABS	-	
Test ID#:	36426	Project #:	15239	Control/Diluent:	EPAMH	
Test Date:	V25/09	Rando	nization:	Control Water Batch:	1245	
				Treatment:	pH3 Aeration	

	F 1		· · · · · ·			Light of the second of the sec					T A
Treatment	Temp	new p	H old		mg/L)	Conductivity (µs/cm)		# Live O	rganisms		SIGN-OFF
	(°C)		<u></u>	new				5	C	D	Date
Blank	25.9	7.70	7.76	8.3	7.5	614	10	7			Date 9/19/09
50%	25.9	7.59	7.54	8.5	7.4	778	7	5			Test Solution Frep J
100%	_	•					-	<u> </u>			New WO HV
											Renewal Time 1715,
											Renewal Signoff
											Old WO
Meter ID	22A	PH 14	p H 0¶	DO 12	Dol3	الان ع					
Blank	25-7		7.88	_	6.7	675	9	7			Dale 9/30/08_
50%	15.7	_	7.68		7.1	902	-	5			Test Solution Prep
100%	_	:						_			New-WO
											Renewal Time
											Renewal Signoff
											Old WQ
Meter ID	22A		pH09	_	DOIY	<u>څ</u> د ٥٥					~~~
Blank	25.6	7.59	7.71	6.3	6.5	596	9	7			Date 10/1/89
50%	25.6	741	7.52	77	6.7	780	1				Test Solution Prep 7A
100%	and the second of	-		7./	_	-	-	5			New WO 720
											Renewal Time
											7530 Renewal Signoff
											Old WO To To
Mara-ID		77.100	0.1	Day 6							
Meter ID Blank	25.6	VHO9		D012	phon	639	9				Date (a.b. (a.C.
<u> </u>	4		7.61		65		1/	[10/2/09 Termination Time
50%	256		7.46		60	824	OX	1			Termination Signoff
100%			_		_		5 0000000				Old WQ
											olg MO
Meter ID	22A	1	DH 12		7014	02.04					

Client:	Precision Analytical	Test ID #:_	36426	Project #	15239
Sample:	Inlet to Res B	Tare Weight Date:	9/28/09	Sign-off:	Deb
Test Date:	9/25/09	Final Weight Date:	10/7/09	Sign-off:	DED)
Translation and to	nU2 Aprotion		1		

Pan ID	Treatment	Replicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
1	Blank	Α	167.80	171.03	/0	0.323
2		В	b .20	163.47	Ю	0.227
3	50%	A	180.36		(0	
4		В	176,80	177.06	10	0.626
5	100%	A	179.32	f management	10	
6		В	166.79		lo	
QAI			159.27	159.18		0.09
Balance ID:			#1	#		

Client	Pres	cision Analytic	al	Organism Log#: 47	89 Age: <u>44</u> 8	45
Test Material:		Inlet to Res B		Organism Supplier:	ABS	
Test ID#:	36426	Project #:	15239	Control/Diluent:	ЕРАМН	
Test Date:	9/25/09	Rando	mization:	Control Water Batch:	1245	
	7-7-	•		Treatment:	pHi Aeration	

	Temp	pl	1	D.O. (1	mg/L)	Conductivity		# Live O	rganisms	 SIGN-OFF
Treatment	(°C)	New	Old	New	Old	(µs/cm)	A	В		
Blank	25.9	8.20		7.0		347	10	10		Daile 9/25/09
50%	25.9	8.10		7.3		578	10	10		Test Solution Prep
100%	25.9	3.09		7.4		783	10	10		New WO 103
										Initiation Time 1650
										Imitation Signoff
										Sample ID 22772
Meter 1D	22A	و والح		DOI 4		e103				Date
Blank	25.7	-	8.14		7.3	374	10	10		9/26/09 Test Solution Prep
50%	25.7	_	8.36	_	7.6	570	10	10		
100%	25.7		8.50		ጊ-8		10	10		New WQ
										Renewal Time
										Renewal Signoff
										old wo
Meter ID	72A	_	pH03		D013	Ec.03				
Blank	260	7.88	3.26	9,9	8.6	373	10	10		Date 9/27/09
50%	26.0	7.59	8.31	9.6	95	550	10	10		Test Solution Prep PA
100%	26.0	7,44	NA	9,4	им	798	9	10		New WQ PA
										Renewal Time
										74
										OldWQ B()
Meter ID	224	940	PPH 09	0014	50013	605				
Blank	26.0		8,40		1.4	385	10	10		9-28-09
50%	24.0		8,20	-	6.9	569	10	10		Test Solution Prep
100%	26.0		9.35	_	6,4	794	3	्र		New WQ
										Renewal Time 0930
										AB
										Old WQ S
Meter ID	224		11/09		PIM	Elay				

Client: _	Prec	cision Analyti	cal	Organism Log#: 47	89 Age:	448 LVS
Test Material:	I	nlet to Res B		Organism Supplier:	ABS	
Test ID#:	, 36426	Project #:	15239	Control/Diluent:	EPÁMH	. *
Test Date:	9 25 09	Rande	ornization:	Control Water Batch:	1249	
	1 1			Treatment:	pHi Aeration	

Treatment	Temp	- N.	H old		mg/L)	Conductivity (µs/cm)		# Live O			SIGN-OFF
Dlash	(°C)	7. 81	Land Albert Market Comment Comment	new		372	Α	В	C	D	Date
Blank	25,9		7.91	10.5	7.5	The transfer of the second	10	10			9/29/09 Test Solbition Preb _
50%	25.9	8.01	8.24	11.0	7.4	593 550	6	ΙŌ			· X
100%	25.7	7.99	8.44	10.7	7.3	788	1	0			New WO J
											Renewal Time
											Renewal Signoff
											Ola WO
Meter ID	1240	PHO	PHIU	PUIY	D01√	Leoz					
Blank	25.7	_	8.27	-	7.3	465	10	/0			Date 9/30/09
50%	25.7	-	8-14		7,3	597	4	7			Test Solution Prep
100%	25.7		8.15	_	7.4	843	Ø				New WO
											Renewal Time
											L& 3 O Renewal Signoff
											Old WO
			P169		0.01						
Meter ID Blank	22.4 25.6	000	.197201100-77	8.1	DO14	Ecos		/ 0			Date ,
	25.6	7.96	4.17	. 72-	7.4	365	10				10/1/05 Test Solution Prep
50%	23.0	7.91	7.21	8.0	6.8	556	3.	6			<u> </u>
100%				_			-	~			174
											Renewal Time /6 00
											Renewal Signoff
											Old WQ
Meter ID	224	PH09	Poido	DOR	D012	flo4					
Blank	35.4		8123		67	39.4	10	10			Date. 10/2/09
50%	25.4		6,33		69	367	7_	6			Termination Time
100%	-							<u> </u>			Termination Signoff
											OLIVO - T
											````` <i>\</i> 8√
Meter ID	22A					7-04					
Meter ID	1264		PH 12		PO 14	EC04					

Client:	Precision Analytical		Test ID #:_	36426	Project #	15239	
Sample:	Inlet to Res B	1	Tare Weight Date:	9/28/09	Sign-off:	DEO	
Test Date:	9/26/09		inal Weight Date:	10/7/09	Sign-off:	DED	_
<b>70</b>	utti A austia		-				_

Pan ID	Treatment Replicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
1	Blank A	196.41	159.37	10	0.29%
2	В	163.86	166.8	<u> </u>	0.295
3	50% A	173.31	173.64	40	0.033
4	В	157.60	158.90	10	0.130
5	100% A	177.12	<b>,</b> -	10	•/4: / · ·
6	В	179.00		10	
QAI		175.7[	175.63		0.8
Balance ID:		#	*[		

Client:	Prec	ision Analytica	il	Organism Log#: 4789	Age: ∠ 48	hr
Test Material:	]	nlet to Res B		Organism Supplier:	ABS	
Test ID#:	36426	Project #:	15239	Control/Diluent:	ЕРАМН	
Test Date:	9/25/09	Randon	nization:	Control Water Batch:	1245	
				Treatment:	pH11 Agration	

Treatment	Temp (°C)	New P	H Old	D.O. New	(mg/L)	Conductivity (µs/cm)	A	#Live O	rganisms		SIGN-OFF
Blank				8.3			ΙΛ Ιυ	10			Date 8/ //
50%	25.8	7.10		100		620	+	,			9 /25/09 Test Schwigh Prep
100%		7.40		8.1		979	10	10 10			New WO ANS
	25.8	,,, <u>-</u>		8.1		1581	10	<i>ν</i>			Similation Time
											1820
											Ko
											Sample ID 22772
Meter ID	2219	PH03	<b>-</b>	Dois		ELOY					Date*
Blank	25.9		7.92		6.0	649	10	10			9/26/09
50%	25:ବ		8.27		6.9	991	10	10			Test Solution Prep
100%	25.9	Alte No. Cilia atras access revolu	8.38	-	6.6	1603	9	10			New WQ:
											Renewal Time
											Renewal Signoff
											Olawo P ()
Meter ID	22A		PHB 1	—	0013	E03					-cwc
Blank	25.9	6.78	7-84	9,0	8.1	662	10	p			Dale 9, 27.09
50%	25.9	6.84	8.819	8.8	8.1	1131	10	10			Test Solution Prep
100%	25 9	6.92	8.38	9.1	84	1575	9	8			New WQ EKK
											Renewal Time #256
											Renewal Signoff
											old wo
Meter ID	22A	<b>₽</b> ₩ 11	PHOG	P104	<i>D</i> 0 (3	ELO 4					
Blank	26.0		7.46	_	7.2	717	10	9			Date 9-28-09
50%	26.0		1.90		7.3	1175	7	6			Test Solution Prep
100%	26.0		8.22		u.8	1650		4		888888	New WQ
						. 6 2					Renewal Time /100
											Renewal Signoff
											211112
Meter ID	an h		PIF PAT		21 oq	E-61V2					om BK
	ACE		1,,,,,	*	4010	EC03					

Client:	Precisi	on Analytical			Organism Log#:	4787	Age:	248hrs
Test Material:	Inle	et to Res B			Organism Supplier:		ABS	
Test ID#:	36426 F	roject #:15	239	ž	Control/Diluent:		ЕРАМН	
Test Date:	9/25/00	Randomization		1	Control Water Batch:		1245	
	$\mathcal{L}_{i}$				Treatment:	- 1	pH11 Aeration	

Treatment	Temp	р	( - T - T - T - T - T - T - T - T - T -	D.O. (		Conductivity (µs/cm)			organisms	T	SIGN-OFF
	(C)	new	old	new	old		A	В	C	D ■	Date
Blank	260	7.63	<b>४.0</b> %	9.5	6.8	६०।	7454	9			9/29/09
50%	260	7.64	7.89	€.\$	6.9	965	6	6			Test Solution Prest 7
100%	262	7.71	8.21	9.0	7.1	1587	0	0			New WO HV
											Renewal Time
											Renewal Signoff  5 H
											Old WO San
Meter ID	22A	PH-14	D <del> </del>  o₁	00 B	Dog	Ec 04					
Blank	15.G	_	815		6-8	647	11	9			Date 9/30/09
50%	159	-	8.05	_	٦.١	1163	4	5			Test Solution Prep
100%	-			-	-		-	-			New WQ
											Renewal Time 1790
											Renewal Signoff J
											ом мо
Meter ID	774		PH09		DOLY	ELOS					
Blank	25.4	7.85	7.95	1.6	6.9	4427	7	9			Date 10/1/09
50%	25.4	7.09	3318.59	200	6.9	965	Ч	5			Test Solution Prep
100%	·	-	/	_	_		-	_			New WQ
											Renewal Time /2-49
											Renewal Signoff
											OISO ON BIO
Meter ID	22Q	PH 09	1/09	P0 15	000	<b>€</b> ₹05	1				
Blank	25.6		7.81		6.6	488	17	9			Date 10/2/09
50%	25.6	1	8.07		6,7	1027	7	5			Termination Time 100
100%	1_		_				-	-			Termination Signoff
											Old WQ ILW
											1-4
Meler ID	22A		_1/ 1/1		ראוא ש	EC 64					
1	1	<u> Issues se s</u>	2H 14		דישן	I FLOY					

Client:	Precision Analytical	Test ID #:	36426	Project #	15239	
Sample:	Inlet to Res B	Tare Weight Date:	9/28/09	Sign-off:	DED	
Test Date:	9/25/09	Final Weight Date:	10/7/09	Sign-off:	DETO	
Treatment:	pH11 Aeration			· ·		

Pan ID	Treatment Replicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
1	Blank A	171.84	174.04	Ţo.	0.220
2	В	179.98	182.11	10	0.213
3	50% A	177.84	178.14	10	0.030
4	В	165.41	166,41	10	0.100
5	100% A	165.69	-	10	
6	В	166.09		(0)	
QAI		165,46	IS5\		005
Balance ID:		<b>-#</b> \	#1		

Client:	Prec	ision Analyti	cal	Organism Log#: 475	37 Age: <u>248</u>	hrs
Test Material:	<u> </u>	nlet to Res B		Organism Supplier:	ABS	
Test ID#:	36426	Project #:	15239	Control/Diluent:	ЕРАМН	, , , , , , , , , , , , , , , , , , , ,
Test Date:	9/25/09	Rand	omization:	Control Water Batch:	1245	
	4 I			Treatment:	pHII Aeration Washdown	

Treatment	Temp	p	SQL	D:O:(		Conductivity (µs/cm)		# Live Or	ganisms	SIGN-OFF
general systematically	(°C)	New	Old	New	Old	(pacin)	_ ^ _	В		<u> </u>
Blank	25.9	8.16		7.6		361	10	10		Date: 9/25/09
50%	259	8.31		8.0		361	10	10		Test Solution Prep;
\$001	25.9 22.5	જ.45		8.0		348	10	0		New WQ: AB
										Initiation Time:
										Initiation Signoff: 。。 )
										Sample ID:
Meter ID	22A	£049		D013		ELO4				
Blank	25.7		8.13		7.6	374	10	10		Date: 9/26/09
50%	25.7	-	8.11	-	7.7	374	10	10		Test Solution Prep:
100%	25.7	F	8.13	-	7-3	379	10	),O		New WQ:
										Renewal Time: /030
										Renewal Signor
										old WQ:
Meter ID	22A		2403		<b>b</b> 013	EZ 03				
Blank 🔑	8 26	97.78	8-09	799	8.3	373	10	10		Date: 4/27109
50%	260	8,15	8.02	9.7	9.9	345	P	0]		Test Solution Prep: 44
100%	260	8.28	7.91	0.0	४८	385	(0	10		New WQ: PA
										Renewal Time: YO
										Renewal Signoff: (A)
										old wo: 18/14
Moter ID	228	PH03		DOH	D013	DES				
Blank	26.0		8,50	-	6.7	400	9	10		Date: 9-28-09
50%	260	_	8,33		6.9	376	10	10		Test Solution Prep:
100%	24.0		8.22		411	392	10	10		New WQ:
										Renewal Time: 0930
										Renewal Signoff:
										oid wo: SL
Meter ID	224	**************************************	6/PV		70).U	EOU	1			_

Client:	Pre	cision Analytic	al	Organism Log#: 478	Age:	48m
Test Material:		Inlet to Res B		Organism Supplier:	ABS	
Test ID#:	36426	Project #:	15239	Control/Diluent:	ЕРАМН	
Test Date:	9/25/09	Rando	mization:	Control Water Batch:	1245	
	1 1			Treatment:	pHII Aeration Washdow	n

and a design of the superior and a s	COLUMN DESCRIPTION DE SERVICION DE LA COLUMN	mangadithet (SER)									to con the same to
Treatment	Temp (℃)	new	H. old	D.O.	(mg/L)	Conductivity (µs/cm)	A	# Live O	ganisms C	D	SIGN-OFF
Blank	25.9	8.47.19		8.8	ブキ	308					Date: 1
50%	Carlot Maria	8.20					9	10			9 29 89 Test Solution Grept: JZ
	259		7.81	8.8	7.2	344	10	10			The state of the s
100%	25.9	8.zø	7.89	9.3	7.3	<i>3</i> 77	10	מו			New WQ: J
											Renewal Time:
											Renewal Signoff:
											Old WQ:
Meter ID	2,2 <b>A</b>	4403	P#14	D6)Y	DOIN	લ્હ					
Blank	25,7	_	8,49		7.4	384	9	10			Date: 9/30/09
50%	25.7	-	8.29		6.9	390	10	10			Test Solution Prep:
100%	25.7	-	8.10	_	7.0	427	10	9			New WQ:
											Renewal Time:
											/ C30 Renewal Signoff:
											Old WO:
											old wo:
Meter ID	22A 25.4		PHOT		DOIY	Ecos					Date:
Blank		6,94	7.92	7.5	6.7	3 34	9	10			10/1/09
50%	25.6	7,23	7.87	9.0	6.7	3 <i>5</i> 6	10	10			Test Solution Prep:
100%	25.4	6.91	7.90	9.6	6.7	388	10	9			New WQ:
											Renewal Time:
											Renewal Signoff:
											old wo: DED
Meter ID	22A	P& 49	POHK	D0/4	0012	EC 04					
Blank	حے۔ھ		8.000	(2) 21 22 2 3 3 1 1 1 T	65	355	8	7			Date: 10/2/09
50%	75.6		2.90		(,,'4	37/3	10	10			Termination Time:
100%	25.6		4,00		J'0	419	<b>1</b>	9			Termination Signoff:
						\ \Y\					Qid WQ: Q. I. I
											70 WG 8 14
Meter ID	ZZA		pH 12		PO 14	ECOF					

# Fathead Minnow Dry Weight Data Sheet

Client:	Precision Analytical	Test ID #: 36426	Project # 15239
Sample:	Inlet to Res B	Tare Weight Date: 9/28/69	Sign-off: <b>XD</b>
Test Date:	9/25/09	Final Weight Date: 10/7/09	Sign-off: DEO
Treatment:	pH11 Aeration Washdown		

Pan ID	Treatment	Replicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
1	Blank	Α	166.91	10.54	10	0.263
2		В	169.14	171.64	IO	0.250
3	50%	Α	170.66	173.69	10	0.303
4		В	159.55	162.60	(0	0.305
5	100%	A	159.77	16291		D.314
6	essantes de production de la constitu	В	166.39	169.08	10	0.264
QA1			172.09	H2.13		
Balance ID:			#1	*		

Client:	Pre	cision Analytic	al	Organism Log#:L 78	9 Age: 448675
Test Material:		Inlet to Res B		Organism Supplier:	ABS
Test ID#:	36426	Project #:	15239	Control/Diluent:	ЕРАМН
Test Date:	9/25/09	Rando	mization:	Control Water Batch:	1245
				Treatment:	Humic Acid

Treatment	Temp (°C)	p New	H Old	D.O. ( New	mg/L)	Conductivity (µs/cm)	Α	# Live Or B	ganisms	SIGN-OFF
20 mg/L Blank	25.8	8.25		4.2		363	10	10		Date: 9/25/09
40 mg/L Blank	25.8	8.26		8.8		368	õ	10		Test Solution Prop:
20 mg/L 100%	258	7.49		8.3		770	10	íO		New WQ: AB
40 mg/L 100%	25.8	7.53		8.3		784	S	ιO		Initiation Time:
										Initiation Signoff:
										Sample ID:
Meter ID	22A	PH03		5013		EL84				
20 mg/L Blank	25:7	-	8.12	accentation of the second	7.3	376	10	10		Date: 9/26/09
40 mg/L Blank	25.7	_	8.0		7.3	374	Q	10		Test Solution Prep:
20 mg/L 100%	2 <b>S</b> ·7	-	8.47		7.5	793	g	10		New/WQ:
40 mg/L 100%	25.7	-	8.49	-	7.2	781	7	10		Renewal Time:
										Renewal Signoff: ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
										old wo: eQ,
Meter ID	27A		YH03	_	D013	03 E				
20 mg/L Blank	26.0	8.00	8.00	102	8.0	390	10	10		Date: 9/21/09
40 mg/L Blank	26.0	8.02	8.00	10.3	8.2	382	jo	10		Test Solution Prep;
20 mg/L 100%	260	7.75	8A7	10-2	7.8	806	8	10		New WQ: FA
40 mg/L 100%	26.0	7.73	851	10.5	7.8	809	9	10		Renewal Time: 1040
										Renewal Signoff: PA
										old Mo: B17
Meter ID	224		p1+09		DO 13					
20 mg/L Blank	24.0		5812		14.3	1387 415	10	10		Date: 9-28-09
40 mg/L Blank	24.0	_	\$10.72v		6.6	8 ⁷ 21 387	8"	8		Test Solution Prep:
20 mg/L 100%	260		8,32		6.8	831	4	9		New WQ:
40 mg/L 100%	26.0	_	817		6.4	821	6	6		Renewal Time: 0936
										Renewal Signoff:
										Old WQ: 5L
Meter ID	22A		phoq		PIR	Emy				

Client:	Preci	sion Analytic	al	Organism Log#: <u>4789</u>	Age:	SAM
Test Material:	Ir	let to Res B		Organism Supplier:	ABS	
Test ID#:	36426	Project #:	15239	Control/Diluent:	EPAMH	
Test Date:	9/25/09	Rando	nization:	Control Water Batch:	1245	
	1 1			Treatment:	Humic Acid	

Treatment	Temp (°C)	p new	H old	D.O. (	mg/L) oid	Conductivity (µs/cm)	A	# Live Or B	ganisms C	D	SIGN-OFF
20 - d Black	Complete Assessed		7.87	11.1		379	<del></del>				Date: )
20 mg/L Blank	25.7	8,03		11.7	7.6		10	9			9 29 09 Test Solution Prep: J
40 mg/L Blank	25.9	8.04 -	7:88		7.5	379	6	8			New WQ: JZ
20 mg/L 100%	25.9	8.15	9.39	11.7	7.7	797	٥				
40 mg/L 100%	25.7	8.13	8.43	11.1	ገ.ን	800	1	3			Renewal Time:
											Renewal Signoff:
											old wo:
Meter ID	22A	PH03	PARC	DOIY	D012	6603					
20 mg/L Blank	Z.S.7	-	8.06	east-60/lapsaparete :	7.3	428	70	9			Date: 9/30/0 9
40 mg/L Blank	25.7	_	8.04	-	6.9	426	6	8			Test Solution Prep:
20 mg/L 100%	25.7		8.17		6.9	874	_	1			New WQ:
40 mg/L 100%	25.7		8.28	-	6-6	188	1	2			Renewal Time: /630
											Renewal Signoff:
											Old WO:
Meter ID	22 _A	_	PHoq		Dol4	Ec 0 5					
20 mg/L Blank	25.6	805	7 11	80	6.8	372	10	9			Date: 10/1/0 f
40 mg/L Blank	25.6	8.11	7,93	8.0	1.5	779	6	8			Test Solution Prep:
20 mg/L 100%	25.6	8.37	8.39	8.2	6.3	385	100 to 10	1			New WQ: PA
40 mg/l_100%	75.0	825	१मा	8.3	6.9	773	0	1			Renewal Time:
											Renewal Signoff:
											Old WQ:
Meter ID	22.A	2409	okog	1015	DVU	Roy					l V
20 mg/L Blank	25.6		10.0		7.0	402	10	9			Date: 10/2/09
40 mg/L Blank	25.6		8.02		6.7	361	6	8			Termination Time:
20 mg/L 100%	25.6		9.40		(e7	384	<b> </b>	I			Termination Signoff:
40 mg/L 100%	25.6		9:45		6.7	826	-	1			Old WO: RA
Meter ID	224		Pt 17		PO 14	ECOF					
L		PROPERTY.				<u> </u>			أنتنتنا		

# Fathead Minnow Dry Weight Data Sheet

Client:	Precision Analytical	Test ID #:_	36426	Project #	15239	
Sample:	Inlet to Res B	Tare Weight Date:	9/28/09	Sign-off:	Ded	
Test Date:	9.75.09	Final Weight Date:	1017/09	Sign-off:	DED	
Treatment:	Humic Acid					

				transport of the contract of t	And the conference of the second control of the second
Pan ID	Treatment Replicate	Initial Pan Weight (mg)	Final Pan Weight (mg)	Initial # of Organisms	Biomass Value (mg)
1	20 mg/L Blank A	164.24	167.28	10	0.304
2	В	164.64	167.45	15	0.231
3	40 mg/L Blank A	167.38	11/18	10	0.243
4	В	163.91	166.67	l D	0.277
5	20 mg/L 100% A	167.23		10	
6	В	144,08	144.17		0.009
7	40 mg/L 100% A	154,11		10	1997
8	В	53.1	153.48	10	0.190 ans
QA1		167.71	167.75		0.04
Balance ID:		*	*		

# **Appendix D**

Test Data for the Testing of Phase I TIE treatments on the Toxicity of the 1/11/10 "Inlet to Reservoir B" Effluent Sample to Fathead Minnows

Client:	P	recision Analytic	al	Organism Log#: 50	034 Age:	248hB
Fest Material:		Inlet to Res B		Organism Supplier:	enviro	
Test ID#:	37837	Project #:	15695	Control/Diluent:	ЕРАМН	
Test Date:	2/3/10	Rando	mization:	Control Water Batch:	1282	
				Treatment:	Baseline	

***************************************					Barrella Company		0				. •
Treatment	Тетр		H		(mg/L)	Conductivity		#Live C	)rganisms	Pararararar	SIGN-OFF
A	(°C)	New	Old	New	श्रीत	(µs/cm)	Α .	В	С		
Lab Water Control	75,0	7.80		3.8		313	5	5	5		Date 2.3.10
50%	25.0	7.60		9.0		564	5	5	5		Test Solution Prep
100%	75.0	6.79		9.9		811	5	5	5		New WO EKE
											Initiation Time
											Instruction Signoff JZ
											Sample 1D 3374
Meter ID	33A	7# 11		R40a 3		Ecs					
Lab Water Control	15.0	8.11	Q.v1	7.4	7:6	327	5	5	5		Date Z-4-10
50%	15.0	7.14	4,740	7.9	7.3	<i>5</i> 57	5	5	5		Test Solution Pref. JZ
100%	م.٥.	6-82	854	9.0	7.3	808	$\mathcal{J}_{ij}$	5	5		New WO
											Renewal Time 1145
											Renewal Signoff Ja
											он мо
Meter ID	30A	9H14	1409	PD077	RDOZ	ecoy					
Lab Water Control	25.1	7.75	7.92	8.7	<b>v</b> .5	276	5	5	ح		Date 2/3//
50%	25.1	7.31	7.97	8.4	7.6	530	5	٦	5		Test Solution, Pysig
100%	-25.1	7.00	<b>६</b> .35	6.7	7.2	826	4	4	۲		New WQ &S—
											Renewal Time 1246
											Renewal Signoff P
											Old WO
Meter ID	33A	, 144	7409	হৈত্বগ্ৰ	2003	£103					
Lab Water Control	15.0	7.8)	7.74	9,1	8.5	<b>እ</b> 78	Ł	5	5		Date 2-4-10
50%	25.0	7.10		9.4	8.5	560	5	5	5	-	Test Solution Prep
100%	25.0	6.94	8.42	9,9	8.5	844	3	ų	5		New WO
											Renewal Time
								4			Renewal Signoff
											Old WO
Meter ID	AEE	PH11	171411	ROOI	RDO3	Ec 03					

Client:	P	recision Analytic	al	Organism Log#:	5034	Age:	248 hs
Test Material:		Inlet to Res B		Organism Supplier:	T/	טעו ב	
Test ID#:	37837	Project #:	15695	Control/Diluent:		ЕРАМН	
Test Date: _	2/3/10	Rando	mization:	Control Water Batch:		1282	
				Trealment:		Baseline	and the second

Treatment	Тетр	P	H	D.O. (	(mg/L)	Conductivity	19-10 V - 17	#Live C	rganisms		
· · · · · · · · · · · · · · · · · · ·	(°C)	new	old	new	olđ	(µs/cm)	Α	В	c	D	SIGN-OFF
Lab Water Control	250	7.74	7.80	9.1	7.2	244	2	S	5		Date 2/7/10
50%	<b>\$249</b>	7.40	8.26	9.0	7,5	509	5	5	5		Test Solution Prep PA
100%	241	7,20		A. A	7.6	४॥	1	4	3		New WO OL
											Renewal Time
											Renewal Signoff
											ouwo (10)
Meter ID	394	phog	# II	R D03	RD CJ	EC03					
Lab Water Control	Z5.0	8-12	7.76	9.1	8,4	<i>33</i> 5	2	5	<b>5</b>		Date 2/8/10
50%	25.0	7-24	8.28	9-8	9.3	8.672	ح	5-	5		Test Solistion Pres.
100%	Z5.0	7-40	8.52	9.6	1.3	£4 887	O	z	1		NEW WOOD NVS
											Renewal Time
											Renewal Signoff
											ola wo HV
Meter ID	3 <i>31</i> A	€H03	PH 11	KDOZ	ROOT	Ecos					
Lab Water Control	15 \	7.91	7,95	8.3	8-0	330	7	5	5		Date 2/9/10
50%	જ.1	7.23	8.33	9.2	8./	564	5	5	5		Test Solution Prep
100%	25.1	7.05	8-48	10.2	7.9	802		2	1		New WO
											Renewal Time / 25
											Renewal Signoff
											Ola WQ
Meter ID	133A	PHII	PH03	ROOL	F.003	Eloy					
Lab Water Control	25.4		7.97		78	349	2	5	5		Date 410/10
50%	254		<b>8</b> .33		7.2	599	5	4	ゞ		Termination Time / Zシ ひ
100%	25.4		8.51		みし	844		1	1		Termination Signoff
											OH WO and

Client:	P	recision Analytic	al	Organism Log#: 57	9.35	Age:	448 hrs
Fest Material:		Inlet to Res B	The Property of the Control of the C	Organism Supplier:	ABS		
Test ID#:	37838	Project #:	15695	Control/Diluent:	El	РАМН	
Test Date:	2/3/10	Rando	mization:	Control Water Batch:		1282	
	A. see see.			Treatment:	,	о <b>Н 6</b>	

| Treatment   Temp   OH   New   Old                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 50% 25.7 6.01 9.3 640 5 5 5 Fest Solution Prep At 100% 25.7 8.91 10.1 9.H 5 5 5 5 New.WQ BUX Impation J. Time 1800 Initiation Signoif J. P.C.  Meter ID 20A p.Ha3 R. Roos 5cos Surple ID 2337 New. WG Surple ID 2337 New. WG Surple ID 25.1 5.99 7.67 8.1 8.3 3.40 5 5 5 Date 2-4-to 50% 25.1 6.00 7.46 8.6 9.3 645 0 7 2 1 Test Solution Prep 37 100% 25.1 5.99 7.75 8.9 8.4 931 0.0 0 0 New WG D. Referred Time 1.700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ##                    |
| 100%   25.7   8.91   10.1   9.11   5   5   5   New WQ   Exc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |
| 100%   25.7   8.91   10.1   9.11   5   5   5   New WQ   Excellent Time   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880   1880 |                       |
| 1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800   1800    |                       |
| Meter ID   20A   PHa3   Roos   Ecos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |
| Meter ID   20A   PHa3   Roos   Scos   Sample ID   23371                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |
| Meter ID   20A   PHA3   Roos   Seos   Blank   15.1   5.99   7.67   8.1   8.3   340   5   5   5   Date Z - 4-10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |
| 50% 75.1 (0.00 7.46 8.6 8.3 645 0 Z Z Fest Solution Prep. 32  100% 75.1 5.99 7.75 8.9 8.4 931 0.0 0 Section Prep. 32  Referred Time 7.700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |
| 50% 75.1 (0.00 7.46 8.6 8.3 645 0 Z Z Fest Solution Prep. 32  100% 75.1 5.99 7.75 8.9 8.4 931 0.0 0 Section Prep. 32  Referred Time 7.700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |
| Reviewal Time<br>7200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | εγί <b>τ': ''</b><br> |
| Renewal Time ) Zoo  Renewal Signoff                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |
| Remewel Signoff                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1                     |
| ON DAY THE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |
| Meter ID 701 PHO3 PHO3 RD61 R063 ECO3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |
| Blank 25,4 6.02 7-47 9.4 7-2 344 5 5 5 Date 2/5/10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7.                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | eggjalange er         |
| 100% — — — — — — — — — — — — — — — — — —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |
| Renewal Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |
| 7/30<br>Renewal Signoff of T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | - Par 1               |
| odwo MVS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | matabilities          |
| Meter ID 30A PHO 9 PHO3 RD03 RD02 ECO3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |
| Blank 25.4 6.00 7,22 8-6 8.2 344 5 5 5 Date 2-6-10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |
| 50% Test Solution Press                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |
| 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |
| Penewal Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -Electric             |
| Renewal Signoff:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |
| Olawo Olawo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | دکارگائی ہیں۔         |
| Meter ID 33A PHO3 OH IN RDO3 RDO3 ECOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |

Client:	P	recision Analytica	<u> </u>	Organism Log#:	5035	Age:	48 AT	ŝ
Test Material:		Inlet to Res B		Organism Supplier:	At	35		
Test ID#:	37838	Project #:	15695	Control/Diluent:		EPAMH		
Test Date:	2/3/10	Random	ization:	Control Water Batch:	Ţ.	202		_
	. The same of			Treatment:		рН 6		

	r										
Treatment	Temp (°C)	new p	H old	D.O. ( new	mg/L) old	Conductivity (µs/cm)	A	#Live O	ganisms C	E	SIGN-OFF
Blank	24.8	6.09	7.53	8.5	7.7	350	a	1998			Date ZF 119
50%	271-8	$\varphi . \sigma$	-	د٠٠			5	_5	<u>5</u>		Test Solution Prep
100%					• • • • • • • • • • • • • • • • • • •		211	1555130101010101010101	alest baranes		New WO
10%						_	_				Renewal Time
											1045
											Renewal Signoff
											oldwo CC
Meter ID	33 <b>n</b>	(PHO)	ett 11	<b>ADO</b> S	<b>७</b> ७०२	Ec.oS					
Blank	15.0	4.00	7.82	10.6	7.4	346	5	5	5		Date 2/8/10
50%					_		-	-	7		Test Solution Prep
100%		-		_				ļ			NEW WO FOUR
											Kenewai jine
											Renewal Signaff
											MV2
Meter ID	10 A	PH83	pH09	P801	<b>RI</b> 03	FOU					
Blank	24.9	7.00		10.4	8-2	35/	J	5	5		Date 2/9/10
50%		-	-	- Commission of the Commission	-			-			Test Solution Prep
100%		<	_		-				<u>ionarana al</u> Designación de Se		New WO J 37
											D
											Renewal Signoff
											HOId WO
Meter ID	7- A	_Ф Н0Я	<b>1</b> 403	Apoz	bb-2	6					フブ
Blank	25.A	DHO!	699	722	PSP63	EWY	1		<u> </u>		Date
50%		. ž'n	6.00		<del>7.</del> 2	36 T	, L	- 5	<u> </u>		Z/10/10 Termination Ture
100%	-										1205 Termination Signoff
100%							<del>-</del>	20000000000	-		اسادا
											old wo
Meter ID	33A		M 09		P1001	Feo 2					

Client:	Pre	cision Analytic	al	Organism Log#:	5035 Age:	448413
Test Material:		Inlet to Res B		Organism Supplier:	ABS	
Test ID#:	37838	Project #:	15695	Control/Diluent:	EPAMH	38
Test Date:	2/3/10	Rando	mization:	Control Water Batch:	1282	
	151			Treatment:	pH 7	

Treatment	Temp	4.10		D.O. (		Conductivity		# Live C	rganisms		SIGN-OFF
and the second of the second	(℃)	New	Old	New	Old	(µs/cm)	A	В	C		<u> </u>
Blank	25.7	7.00		9.4		330	5	5	5		Date 4.3.10
50%	<b>75</b> 7	7.00		3.8		699	5	5	5		Test Solution Prep A2
100%	25.7	6,99		9.0		1109	5	5	5		New WQ
											Initiation Tame 1800
											initiation Signolf
											23774
Meter ID	30A	PH03		2003		₽¥¥-ECQ5					
Blank	<b>25.</b> \	6,99	7.75	<b>&amp;.3</b> .	8.4	324	5	5	5		Date 2-4-10
50%	الكار	7.00	8.20	816	8,5	736	5	5	5		Test Solution Prep JZ
100%	251	7.00	8.46	ما ہ	84	1145	$   \mathcal{F}_{v}  $	5	ک		New WO
											Renewal Time /でい
											Renewal Signoff
											OHWO HV
Meter ID	-50A	PK03	PHIZ	RDOI	<b>R</b> poz	E145					
Blank	25.4	6.90	7.80	9.8	7-7	336	5	5	5		Date 2/5/10_
50%	25,4	7.10			7-6	741	5	5	5		Test Solution Prop
100%	25.4	6.90	8-60	10.3	7.9	1139	5	5	4		New WQ BI+
											Iveliewa Time: 115
											Renewal Signoff フブ
											Oldwo NVS
Meter ID	30A	PH09	рНоз	_KDo3_	RDOZ	rc03					
Blank	75.4	7.60	7,62	8.5	8.9	332	5	5	S		Dato 2-4-10
50%	25.4	7-31	8.14	8-9	8.1	7.44	5	5	5		Test Solution Prep.
100%	25.4	7.0)	8,46	9.0	9,1	1164	ی	2	3		New WQ NVS
											Renewal Time
											Renewal Signoff
								•			Oid wo. Wil
Meter ID	33A	eH 03	oHIL	RD03	RD03	Ec 05					
			To the second second					1.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		12.	

Client:	Precision Ar	nalytical	Organism Log#: 5	035 Age:	c48 hrs
Fest Material:	Inlet to R	Res B	Organism Supplier:	ABS	a setti viirii ili ee
Test ID#:	37838 Project	#:15695	Control/Diluent:	EPAMH	
Test Date:	2/3/10	Randomization:	Control Water Batch:	1282	1.00 %
	A second second		Treatment:	pH 7	

Treatment	Temp (°C)	p new	e old	D.O. (	mg/L)	Conductivity (µs/cm)	A	# Live O	rganisms C	D	SIGN-OFF
Blank	24.8	7.00	7,73		Congression secretary of	331 120S	5	5	-#5		Daice 2/5/10 3/7/10
50%	248	7.0Y	せいん		ア、ア	760	5	5	5		Test Soliation Prep
100%	24-8	334	<b>1</b> .3b		7.6	1202	11	1	2		NewWQ O 0
						The State St					Renewal Time
											Renewal Signoil
											od wo CA
Meter ID	33A	?4(03	_اللام	R003	<b>NDOY</b>	EC03					
Blank	2S. 0	7.00	j.]7	10.9	7-1	<u> 328                                    </u>	2	ح	3		2/8/10
50%	15. U	7.00	8.14	10.9	7.2	761	5	5	J		Test Solution Prep 3
100%	150	7.00	8.35	11.3	7-2	1178	3	/	0		New WQ FOUS
											Renewal Time
											Renewal Signoff
											ORMO NAZ
Meter ID	33A	7 KR3	pHo9	PD61	8003	我の代					Date
Blank	24.8	7,00	7.83	10,0	8./	33/	5	5	3		2/1/10 Test Solution Prep
50%	248	231	8.12	10.0	8,0	785	4	5	5		See New WQ
100%	248	7.00	839	9.9	7.9	1208	234	0	-		Son JT Renewal Time
											1160
											Renewal Signoff JT
											Old WQ
Meter ID	33A	GH09	P#03	ADOL	ROB3	Bioy					Dare.
Blank	25.9		700		7-6	355	5	5	3		Date ZSID / 10
50%	25.4		7-60		77	825	マ	4	4		Termination Time 1205
100%	254		7.97		7.6	1294	1	_	_		Termination Signalf
											old wo W
Meter ID	33A		1409		eno [	8003					

Client:	Pi	ecision Analytic	<u>al</u>	Organism Log#:	5035 Age:	=486ra
Test Material:		Inlet to Res B		Organism Supplier:	AB5	
Test ID#:	37838	Project #:	15695	Control/Diluent:	ЕРАМН	
Test Date:	2/2/10	Rando	mization:	Control Water Batch:	1282	
•	1-1		<del></del>	Treatment:	8 Hq	

Treatment	Temp (°C)	p New	Old H	.D.O.	(mg/L)	Conductivity (µs/cm)	A	#Live C	rganisms C	SIGN-OFF
Blank	o la completamentario	Brikemannermann	Ç _i	Autonomoreil				Matthew Work Jours	Alter or application of the	Dale
<u> </u>	25.7	7.98		8.8		323	5	5	5	2.3.10 Ten Solution Prep
50%	25.7	<b>3</b> .00		8.9		631	5	5	5	New WQ Exce
100%	25.7	8.00		1.3		948	5	5	5	Eure Institution Time
										1800
										Institution Signol?
										Sample ID &3374
Meter ID	30A	PH03		RDOZ		ELOS				
Blank	25.1	7.99	7.92	8,2	8.4	317	5	5	5	Date Z-4-10
50%	25.1	7.99	8.42	8.3	8.5	681	5	5	5	Test Solution Prep JZ
100%	25.7	8,00	9,60	8.6	8.5	960	5	5	5	New WO
										Renewal Time 1200
										Renewai Signoff
										Oldwo HV
Meter ID	70A	P403	H29-0413	<b>20</b> 01	RD03	E(63				
Blank	2 254	8-09	7.95	9.6	7.4	329	5	5	5	Date
50%		717		9.8	7.4	631	5	5	5	Test Solution Prep
100%	a Party	8.08		10.1	7-8	953	5	5	5	New WO BIT
							l Ó			Renewal Time 1/30
										Renewal Signoff
										ordwo
Meter ID	3 <b>6</b> /	PH09	9H03	RDO3	RDØ2	r//0				" NVS
Blank		8,00	7,92	8-7	8.1	318	5	ч		Date 2-10-10
50%	25.4	8-25	4,41	8.8	100		5	5	5 5	Test Solution Prop
100%	25.4				A Secret Secret Sec	627	4 Acceptance			New WO
100%	25.4	D.UD	8.56	8.9	4.0	9.43	5	5	5	NVS Renewal Time
										1500
										Renewal Signoff
										Old Mo CG
Meter ID	33A	pH03	olt II	R003	12103	Ec 05				

Client	Precision Analytical	Organism Log#: 5035 Age: 48 hrs
Test Material:	Inlet to Res B	Organism Supplier: ABS
Test ID#:	37838 Project #: 15695	Control/Diluent: EPAMH
Test Date:	2/2/10 Randomization:	Control Water Batch: 1282
•		Treatment: pH 8

Treatment	Temp		9	D.O. (		Conductivity (µs/cm)	A	Live Or	ganisms C	D	SIGN-OFF
Application of the specimen of	(°C)	new	old 7, 275	new 8.5	8.4.01	322	양내	ennie.	Maria de la composición della	J.	Date 7/7/10
Blank	248	7.90	253		7-62	650		<u>3</u>	4		Test Solmon Pres
50%	248	747	<b>8.35</b>	8.6	7.6	987	5		4		New WO
100%	248	797	q.52	8.5	7.64m		나	3	4		Renewal Time
											1045 Renewal Signoff
											OH WO O
											067
Meter ID	33 <b>/4</b> *	17103	ρ\ <del> </del>	RD03	RV 03	E(03	4	3	4		Date Z/8//O
Blank	25.0	16,00 700	7.47	11.2	7.A	321	58 St	S			Test Solution Prep
50%	15.0	7.99	8-39	11:3	7.4	651	5	600111171111111111111111111111111111111	4		New WQ Total
100%	15.0	7.99	8.54	11.3	7.4	976	4	<i>3</i>	3		Renewal Time
											Renewal Time   33°
											2VN "
Meter ID	31A	PH03	PH 09	₹D0	RD 03	FOY					Date
Blank	24.8	8.00	(\$ x 1): million ()	9.8	8.2	320	4	3	4		2/9/10 Test Solution Prep
50%	24,8	8.09	8.49	10.0	8-1	662	5	5	4		Sm 300
100%	14.8	8.00	8.58	9,9	7.8	1005	J.	3	9-		Sm/J7 Renewal Time
											Renewal Signoit
											<b>プラブ</b>
				2 224							odwo JT
Meter 1D	33/4	Paralel de la comp	1403	190 d	51	Ec.y					Date
Blank	254		1.05		8.2	363	14.	3	14		Date 2/p//v
50%	25.4		6.20		8.0	693	4	5	3		1705 Termnauon Signoff
100%	25.4		8.46		10	1052	2	3	7	-	n
											ou wo W
Meter ID	13	ı l	ขพอจ		a 101	Ec03					

Client:	Precision Analytical	Organism Logs: 5040	Age: 248hrs
Test Material:	Inlet to Res B	Organism Supplier:	EAVIN Sciences
Test ID#	339 Project #: 15695	Control/Diluent:	EPAMH
Test Date: 2-4-	Randomization:	Control Water Batch:	1282
• • •		Treatment:	Baseline #2_

Trealment	Temp		pĤ .		(mg/L)	Conductivity (µs/cm)		Live C	1	S.	SIGN-OFF
Lab Water	(°C)	New	Old	New	Old	o w Although the	A	В	C		
Control	25.5	- X	77.00	8.4		1267	5	5	5		Date 2-4-10
.50%	255	692		4.0		541	<b>S</b> .	5	5		Test Solution Prep JZ
100%	25.5	76.70		19.5		1811	5	ک	3		New WQ
						r discount of the		100			Initiation finite
											inidadon Staroff.
											Sample ID #B
Meter ID	JOA	<u>ρ</u> μ <b>ο</b> 9		ROGZ		EGG					Sample ID 3374
Lab Water	25.4	7.04	7.9	9.3	1	283	#34 E	Control of the Control	المالية المالي مسيد		Date
Control 50%	25.4	J	A Secretary of the second		8.]		5	5	_ د		Date 1/5/1/00 Test Solution Prep
wagogania maka indonesia sa ana	or the parties of the same	and the same of the	Zine mine him	dan-Neural and a	8.1	548°	5	5	<u>5</u>		PA
100%	25.4	7.77	8 10	9.0	7.9	816	5	ς	4		160
											Renewal Time 1450
											Renewal Signoff
								700		170	Old WQ
Meter ID	30A	PH03	Phll	RT02	P003	ELO4			en nager		8)†
Lab Water Control	<b>5</b> 5.1	7.91	783	4.9	€.0	2422	5	5	5		Date 2/6/10
50%	45.1	7.31	6.Zip	9,2	7.9	566	S	5	5		Test Solution Prep
100%	ಶ್ವಾಗಿ	7,19	8.49	9.6		837	5		4		New World
official and						05/		6			Renewal Time
		Karana Karana									Renew Land
											olawo BL
Meter ID Lab Water	30A	PHIL	PHI	RDOI	PC03	E003				鐵線	
Control	25.5	7. 81		8.7	7,8	980	5	<b>5</b> _}	5		2/3/10_
50%	25.5	7:17	8.30	a.d	2,7	634	5	5	5	- 1	est Solution Pyep
100%	28.5	6.95	4.55	10.0	7,8	ୁଷ ।ଷ	4	5	24	-	New WONT
							乙山				Lenewal Time
							MATERIA SACTOR		447	P	lenewal Signoff
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ACCUMENTS									nà woa a
Meter ID	30A	ונעג	1820 S.	000		E ALL					<u> </u>
	<u></u>	burn A	ottll_	PPOL!	KVOJ	DO 04					

Chent:	Pre	ision Analyt	ical	Organism Log#:	5040 Age:	248 hrs
Test Material:		nlet to Res B		Organism Supplier:	Enviro	Swences
Test ID	37839	Project #:	15695	Control/Diluent:	EPÄMI	Law is the
Test Date:	2-4-10	Randon	n zation:	Control Water Batch:	1282	and the great
		•		Treatment:	Baseline	#2

Schools Chickers and Control	1,000,000	34		The section of the se			grand department	10.00	***************************************	<del>,</del>		
Treatment	Temp	þ	9,	The state of the s		Conductivity	Prince of the Pr			6	SIGN-OFF	
	(°C)	леж	old	пеж	old	(µs/cm)	А	В	C	D	0.011 0.12	
Lab Water Control	25.5	795	7.57	89	<b>1</b> , 5	333		5	ح		Date 2/8/10	
50%	25.5	7.39	<b>§</b> .3]	8,9	8.5	563	5	4	4		Test Solution Pro	
100%	25.5	],23	8,54	9,5	9.5	895	3	4	7		Navve Fores	
											Renewal Time	
The supplier rest of problems											Renewal Signaff.	
			St.	05-1				100			Un w	
Meter ID	30∆	10 Jan 1 100 1 100 2 10 10 10	<b>13</b> 09	K-VOI	1,500	FCOY	12.534				Date	
Control		#FE	7.79	<b>₹.</b> %	85	339	5	5	<u>5</u>		219110	
50%	D.Z	म पूर	8.36	» <b>ይ</b> ሜ	8-1	581	5	4	4		Test Solution Prep	
100%	75.2	撑	8.83	9.4	7.8	<b>53</b> 0	3	4	2_		New WO	
100							910			100.00	Renewal Time 420	
											Renewal Signoff	
			0.12								oligiwo DD	
Meter ID	- Contract C	while control of the control	1403	CONTRACTOR AND ADDRESS OF THE	RO03	Eco3		iles para de			Date	
Lab Water Control	249.	7.67	1.71	8.7	19L	335	-	5	کا		2/10/10 Test Solution Prep	
50%			4.9		€.0		5	4	4	45.2	9m New WQ	
100%	24.9	6.69	<b>436</b>	10.6	1.9	831	J.	3	1		Sm	
	* 12 T		, Jose								Renewal Time  1240  Renewal Signof	
1000											Olewo ) 0 ~	
									<u> </u>		MO	
Meter ID	30%	ptll_	phil	PD02	4900	ECOY	800 E					
Lab Water Control	15.5		7.13		7.5	397	5	5	5		Date 2.11.10 Temporation Time	
50%	15.5		8,29		1.3	632	5	H	3	1	1115	
100%	25.5		8.50	7,1	7.2	881	0	1	1		Termination Signoff	
		1		Page		High Constants					Ola WQ	
							30					
Meter ID	400		140)		20 %	ELOY				Self-	2	

Client;	Precision Analytical	Organism Log#:_	5040	Age: 248h	<b>/</b> S
Test Material:	Inlet to Res B	Organism Supplier:	Enviro	Sciences	
Test ID#:	37839 Project #: 1569	Control/Diluent:		ЕРАМН	_
Test Dațe:	2-4-10 Randomization:	Control Water Baich:		1282	
		Treatment:		nH 3	

<u> </u>	1	T. N	ario de _{la colonia} ario e e e discontrato de	Access of the contraction	emerginan saar	7	-2000ee.	nii a	Control of the control	granadila rage	
Treatment	Temp (°C)	New 1	Old	D.O.	(mg/L) Old	Conductivity (µs/em)	Ā	Live (	rganism C	is	SIGN-OFF
Blank	25.5	7,23		8.7		537	5	5	5	C. C. C.	Z-4-10
50%	25.5	7.0%		8.9		791	5	5	5		Test Solution Prep
100%	,	697		9.3		1294	5	5	5		New WO
											Initiation Time
											Impation Signaff
											Sample ID 9337 Y
Meter ID	30A-	121100		end2		ECOS					2357 T
Blank	25.4	7:70	7.43	8.0	8.0	527	5	5	5		Date 1410
50%	95.Y	3.0 U	1.99	8.7	8.0	794	s	5-	Ξ.	7.8	Test Solution Prep
100%	25.4	8.14	8.12	8.7	8.0	1297	5	5	5		New WO AR
					in the	and the second					Renewal Time: //o.50
										THE REAL PROPERTY.	TVCHEMNI SIBUOIL
											oia wo BH
Meter ID	3≯	p#103	Ph]]	EF02	12 DO3	BC04					
Blank	25.1	7.86	7.77	4.9	8.2	りゅう	5	5	5_		Date  2/G/t0  Test Solution Prep
50%	as.i	7,86	8.01	9.7	8.2	824	5	5	5		Test Solution Prep New WO 101
100%	25.1	6.70	8.ZL	9.4	<b>ፈ</b> .ን	1361	5	5	5		8m / C7
											Renewal Time
											Renewal Signoff
											old wo J
	7.173	H09/11	Str. Names and Str.	the second second		Fa 03	3.87				
	25.5	7-52	7.59	9.8	7,4	531	5	5	5		2/7/10
The second second second second	25.5	7,52	7.48	9,3		796	5	5	5	Campo Law &	Test Solution Prep
100%	755	7,34	8.08	9.6	7,7	1326	5	5	4		NEW WO OA
			e de la companya de	ng i							Renewal Time
					39 1						Renewal Signoff
								***			Download III
Meter ID 3	OA:	1140	6H11	(100g	ROOL	Be OU					

Client:	P	recision Analyti	ical	Organism Log#: 5	040 As	te:	LU8 hrs
Test Material:	<u> </u>	Inlet to Res B		Organism Supplier:	Enviro	Science	?3
Test ID#: _	37839	Project #:	15695	Control/Diluent:		ЕРАМН	
Test Date: _	2-4-10	Random	rization:	Control Water Batch:	t	282	
	111-	•		Treatment:		сн 3	

Mill and the community	gele <u>(mga armana i ma</u>	dada a result communicação	egit indexe.	er.		*	Cathrent.	SAME SAME SAME	na n	and the second	9H 3
Treatment	Тетр	at the second second second second	н	.,	mg/L)	Conductivity	u.e/j	Live (	rganism		SIGN-OFF
3	(°C)	new	old	new	old	(µs/cm)	A	В	c j	E D	SIGN-OII
Blank	کری د	].60	7.78	9.9	8.4	535	5	\$	<b>3</b> 7		~ <del>448/1</del> 2/8/
50%	25.5		A	9.6	8,4	833	5	5	اسحيا		Pin Pa
100%	25.5	7.70	8.09	4.8	8, 2	131	4	<u>"</u> ح	4		ForB
- 12 m		de la companya de la								4.2	142
											Pariod Signature
											pawa Ja
Meter ID	30A		PH 09	DP0	<u>P</u> P03	FCO1	***				
Blank	25.2	<del>Ti</del> i'	7.54	9.9	7.8	552	e	5	<b>5</b> =		2/9/10
₹50%	Ø.Z	745	7.90	9.3	1.7	841	5	Control of the same	S		Iss Solduon Prof.)
100%	15,2	700		to a designation of the second second	8,0	1344	4	4	2		IEVROT
in the second					115						Bentus Time
15-11-1											#⇒syall Signoff
		Carlotte State									diawo
Meter ID	30 J	øH03	DAR	RDDI	703	EL AB					<u> </u>
Blank	1116	grand comme	7.70	e e el tele el el estimation m	ጓ 8		5	5	7		Dia Ababa
50%	Self-ten and Self-ten	S	792	Attaches Act	19	555 84C	51		<u>5</u>		2/10/10 Test Solution Prep
100%	<ul> <li>PBS recovery</li> </ul>	5 1972 Add 1976	7.93	C. C. Commissions	7.6	13.65	framerous or comme	ber	J (2,, a)		9m New WQ
	4	6:40	.,,	10.5	7.0	1999	7	4	2.		SW Times
							i age				TU40
Anna de la company											Henry Spool V
Meter ID											MO MO
Blank	70 A	9H11	Section of the second of the s	<u>P502</u>	<b>T</b> 00.5	Scoy					Dale
50%	15.5		7.13	2.00	7.7	610	5	5	5		L.11.10
	25.5		7.10	200	7.3	933	5	5	5		1115 Teampetacion Signoff
100%	25.5		7.69		6.8	1485	1	1	. 1		EKIL
											©⊯wQ Eec
Meter ID	Abc		pH03		Rool	ECOY					

Client:	Precision An	alytical	Organism Log#:	5040	Age: 248 hrs
Test Material:	Inlet to Re	s B	Organism Supplier:	ENVIYO	
Test ID#:	37839 Project #	15695	Control/Diluent:	- E	PAMH
Test Date: _	2-4-10 Ra	ndomization:	Control Water Batch:		-82-
	•		Treatment:		nH 9

Treatment	Temp	pH.		the second of th	(mg/L)	Conductivity		FILive Cirganiania			SIGN-OFF
- F. Car	(°C)	New	Old	New	Old	(µs/cm)	1.	, В_	C		5.51011
Blank	*2°2	1851£	Value 1	18		423	5	5	5		2-4-10
50%	25.5	7.18		8.8		702	\$	5	ς		Tiget Solution Prep
100%	JS.5	7.01		9.2		\$1138	5	5	3		Slave WO
											1915
											Intribute Signoff
											5447410 23374
Meter ID	30 A	PHOT		ROGL	7.4	Eso5					T Mary 12 Jan
Blank	25.J	1.99		9.0	83	379	5	5	5		2/5/10
50%	25.4	8.14		8.5	8.1	697	5	5	5		Test Solution Prep
100%	25.4	8.24	8,50	8.8	8.[	1135	ζ.	5	2		AR PRINCE
Kr. A			100			Section 1984					Apricual Time / USO
									MA		Kingsall Signal 4/3
											an wo BIH
Meter ID	30A	PH03	ph]]	2002	RD03	ELOY					
Blank	25.1	4.85	€.0K	9.8	8.4	426	5	5	5		2/1/10
50%	25.1	7,23	8.72	9,4	8.3	754	5	s	5		2/6/10 Test Soldwort Prep
100%	25.1		8.47	TAR TO HARMON STEELING	78	1229	5		5	157	BM/CA
						100 mg					Reserval Time
											IGO Rama Maria
			i la Trac								thiwo 72
Meter ID	30A	04091	PHII	1000	Páol	6003					
Blank	25.5	1000	7,80	3	7,8	416	3	6	5		2/7/10
50%				8.8		Control for the same and a pro-		高	5		Test Solution Prep
100%	a marry managed			10.0		1196		舌	2		open mo VI
									<b>)</b>		Rungwal Time
			AND THE PROPERTY OF THE PROPER	- 1942 1447 1447						Maria Military Maria Maria	Denowal Time OCO Denden Signor
			etka esti.			Eugene at E Eugene at Eugene br>Eugene at Eugene					Mwo A A
Meter 1D	30A	0H11	nUII	&∆¢)	000	र-म					
			<u> </u>	F-Y-CX	11. ALANDE	EQUI.	<b>张明</b>				

Client:_	Pro	cision Analyt	ical	Organism Log#: 50	어나O Age:	Ly8n-s
Test Material: _		Inlet to Res B		Organism Supplier:		ences
Test ID#:_	37839	Project #:	15695	Control/Diluent:	ЕРАМН	
Test Date: _	2-4-10	Randon	vization:	Control Water Batch:	1282	
* -				Treatment:	nH 9	

	1		freder	1	- Parketer i		- N 7 700		rest of the man		300
Treatment	Temp (°C)	new _	oH H⊋old	D.O.	(mg/L)	Conductivity (µs/cm)	2 ₀ 1. 3	# Live (	the second second		SIGN-OFF
		toe J	10		a description of the second		A	В	С	D	En a management of the state of
Blank	78.S.	771	7.81	9.6	8.1	14/8	ح	5	5		Date 2/3/10 Test Solution Prep
50%	255	7.86	8-10	195	9,4	761	5	5	5		Test Solution Prep
100%	<b>25</b> \$-	7.84	8.33	9.8	8,4	1186	5	4	T-		No.WO FOUB
				10.00							Renewal Time
			12				10.4		3 4 3		Renewal SignofT
											old wo
Meter ID	10h	PHIL	PH 09	ROOT	edo 3	Eco4		0.00			<u> </u>
Blank	25,2	7.78 7.78	7.84	9.4	8.3	431	5	5	5		Date
50%	a52	4.07	3.14	9.0	8.1	773	5	5			PL/9/10 Test Solution Pyen
100%	0e 0	624	743 930	۹٠3		the state of the state of		A CHARLES OF Short Charles	4	-	New WQ
	$\omega$	-0 8x	7.50		812	1214	有5	S	<u>ر</u>		Renessal Time
			F-12 10							7.7	1420
			10.242.000			100					Renewal Signol?
1100					and a						old wo
Meter ID			PH03	1 909	Red3	E@3					
Blank			168		7.0	4455422	5	5	5		2/10/10
50%	19.4	7.14	190	9.3	7/7	784	5	٦	4		Test Solation Prep
100%			8.05	<i>l</i> o. o	7.9	1224	3	1	τ		NewWo
									3		Renewal Time
											1240 Renewal Support
											Olf WG
Meter ID	BOA	e H11	Phu	2002	rgoz_	Ec04					Mo
Blank	25,5		7.88		7.4	the set of	5	5	F		Date
50%	25.5		8,07	11111		457	***	ji i seriaji	.5		1, 11, 10 Termination Time
100%	25,5				1.1.	824	4	5	4		N. 1.5 Termination Signoff
med (P	<b>43,3</b>		9.10		7-1	1298	Ø		2		Sex Ola Wg
							e ingeren		8		<u> E</u> kok
											1 100 100 100
Meter ID	Aod	72.5	60 HJ		Not	£c•4					

Client:	Precision Analytical	Organism Log#:	5040 Age: 248 hrs
Test Material: _	Inlet to Res B	Organism Supplier:	Enviro Sciences
Test ID#:	37839 Project #:15695	Control/Diluent:	ЕРАМН
Test Date: _	2-4-10 Randomization:	Control Water Batch:	1282
		Treatment:	pH 3 Filtration

Treatment	Temp (°C)		H Old	D.O. New	(mg/L)	Conductivity (µs/cm)	7-2		rganisn	is [v:a	SIGN-OFF
Blank	25.5	7,47	Color of the Color	haspassmedvv	3.76	<i>5</i> 80	A .	B	C سر		Date
4		y		6.6		Salt W.A. Ch. (Spink wheel common open or	5	5	5	10.00	Z-4-10 Test Solution Prep JL
50%	25.5	6 0 1	200	89		830	5	5	5		
100%	255	699		9.2		1377	5	5	ێ		New WQ
											Initiation Time
											Initiation Signoff
											Sample ID
Meter ID	30A	PHOM		ROOZ		Ews					23374
Blank	25.4	7.68	7.Sle	ra jacorna	<b>B</b> . [	548	5	5-	S		Date: 7/5/10
50%	25.4	8-11	8.13	8.4	7.9	481	5	5	5		Test Solution Prepr
100%	25,4	791	1	8.10	7.9	1371	5	5	5		New WQ
			96.0		La company			The second	PENELLI I		Renewal Time 1650
											The state of the s
											1115
						and the second					old wo BH
Meter 1D	384	pH03	PAIL	2002	₽D03	<b>204</b>		<b>阿</b>			Date
Blank	25.)	7.86	7.91	9.6	8.0	643	5	5	5_		Test Solution Prep
50%	25.1			9.6		865	5	5	5		3
100%	25.1	6.70	4.BO	9.9	79	1433	5	5	5		New WO
ii esti											Renewal Time
											Renewal Signoff
<b>P</b>											ola wo
Meter ID	BOA	D#09/1	PHI	RVO	12405	Ea.03					
Blank	253	7.54		4.7	7.6	568	5	<	سم		Due 12/1-
50%	285	and an investment of the	8.09		184************************************		5	2	3		Test Solution Prep
100%	700	7 ~	m 76	00	7.7	יינע או נוב טו	5	75	2		New WO and
	(~)	1.04	41AP	4.0	$\mu L$	1404		ر ر	2		Renewal Time
				2.5%						energy (S	Renewal Time
			April 1		1.30						Renewal Signoff
											old wo
Meter ID	309	OHIL	OHIL	896A	13702	E0 04		100	100	La W	The state of the state of

Client:	Precision Analytical	Organism Log#: 50	lo Age:	248 Mrs
Test Material:	Inlet to Res B	Organism Supplier:		rences
Test ID#: 37839	Project \$: 15695	Control/Diluent:	EPAMH	
Test Date: 2-4-10	Randomization:	Control Water Batch:	1282	The second secon
		Treatment:	pH 3 Filtrat	ion

			na .			Ti	eatment:			pH3	Filtration		
Treatment	Temp		pH D.O (mg/L)			Conductivity					S CICNI OFF		
	(C)	new	old	new	old	(με/cm)	Α	В	c	D	SIGN-OFF		
Blank	<b>V</b> 55	7.6		均48	8.5	5/3	5	5	ζ-		2/8/10		
50%	255		9.04	9.7	8.5	896	5	5	$\mathcal{S}$	100	Test Solution Prep.		
100%	18-J	1.43	8,26	4.7	8.3	1286	5	2	ت		New WO FOR		
	34.5			1450					1		Renewal Time		
											Renewal Signoif		
											Olawo HV		
Meter ID	DA	PHIL	PH 09	PDO	Ryo3	FCW				27 W. S.			
Blank	752	狦	7.43	9.4	<i>.</i> 7.7	( <b>5</b> 0)	5	5	5		2/9/10		
50%	25.L	778	8.09	9.1	7.9	865	5	5	2		Test Solution Prep.		
100%	<b>5</b> 12	732	8-18	9.0	ירנר	1383	5	5	5		New WO		
			electrical de								Renewal Time		
						400					Renewal Signoff		
	20 C										Ola WO		
Meter ID	30A	5463	CHR	<b>2001</b>	RPUS	دمع							
Blank	29.9	787	1.JL	10.1	77	5(A)	Σ	5	5		Date: 2/10/10		
<i>5</i> 0%	14.x		1:47	9.7	7.8	876	5	5	5		Test Solution Prep		
100%	245	6.69	801	10.3	8.4	1409	5	A CHARLES	F		Sm. New WO SnL Reasonal Time (		
						The same of the sa					Renewaly 223 U		
											Renewal Signoff		
					100					==	Ola WO		
Meter ID	ረተርአት -	3HII	7.JT	RDD).	\$505 [—]	Eco4	312				P (0		
Blank	25,5	le de la companya de	7.60		7.3	645	5	5	5		Date		
50%	<b>15.</b> 5		8.02		7.4	ବ୍ୟତ	5		5		Termination Time		
100%	25.5		8.))		7.5	1512	5	<u>ی</u> 4	5		Termination Signoff		
						3.00			)		ON WO		
		escoperació									EU		
		Parties.											
Meter ID	30 A		60 Hd		ROU I	۲۵ع							
		PASSES SECTION	الخبا	Al-direction (	KOU 1		3 1 m			200			

Client:	Pre	cision Analytic	al	Organism Logs: 50	34 Age: 4	48 45
Test Material:		Inlet to Res B		Organism Supplier:	enviro	
Test ID#:_	37837	Project #:	15695	Control/Diluent:	EPAMH	
Test Date:	2/3/10	Rando	mization:	Control Water Batch:	1282	
	• •			Treatment:	Filtration	

Treatment	Temp (℃)	p New	Old H	D.O.( New	mg/L) Old	Conductivity (µs/cm)	A	# Live C	organisms C	SIGN-OFF
Blank	<i>25.0</i>	7,78		4.0		331	5	5	5	Date: 2.3.10
50%	75.0	7.15		٩.٥		564	5	5	5	A. 3.16 Test Solution Prep
100%	25.0	6.44		9.7		814	5	5	5	New WQ Fur.
										Intriation Time 1800
										Initiation Signoff JZ
										Sample ID 23374
Meter ID	334	PHU		Coan		<b>605</b>				
Blank	23. V	7.80	8-14	8,5	1.3	315	5	5	5	Date 2-4-10
50%	~\$ <b>,</b>	7.42	8.32	1.1	7,4	\$ <b>7</b> 6	5	5	-5	Test Solution Prep 72
100%	250	7.52	848	7.9	7.3	81]	ζ,	2	5	New WQ DS
										Renewal Time) 145
										Renewal Signoff
										Old WQ MO.
Meter ID	03B	P#14	PHOS	PD03	RD02	Ecor!				
Blank	25.1	7.63 pHO 02	8.28	9.8	י.ר	324	5	5	5	Dale 2/5/10
50%	25.]	7.15	8.10	9.6	7.5	570	5	S	5	Test Solution Prep
100%	25,1	6.99	9.30	9-3	7.0	826	5	5	5	New WQ
										Renewal Time 1240
										Renewal Signoff
										OW BIO
	431	p#89	P409	Rapi	RD03	E. B				
Blank	72. O	7.96	7.90	10.	8,0	321	5	5	5	Date 2-1,-10
50%	15.0	7,3	8.18	9.9	8,4	<u> 559</u>	5	5	5	Test Solution, Prep
100%	15.0	7.17	8,40	10·0	8.4	<b>8</b> ድያ	5	5	.5	Naw WQ CG
										Renewal Time [436
										Renewal Signoff  EXX
										oldwo 37
Meter ID	334	ptt 1	PHII	RP01	RD03	Fc03				

Client:	Precision Analy	tical	Organism Log#:	5034 Age:	C48hs
est Material:	Inlet to Res I	<u> </u>	Organism Supplier:	ENVI'ZO	
Test ID#:	37837 Project #:	15695	Control/Diluent:	ЕРАМН.	17.1
Test Date:	~ /~ /. ~	domization:	Control Water Batch:	1282	37
	. The state of the	a tea de la Timb	Treatment:	Filtration	The second second

_	Temp pH D.O. (mg/E) Conductivity				Conductivity	#Live Organisms SIGN OFF					
Treatment	ന്	new	old	new	old	(µs/cm)	A	B	rganisms C	D	SIGN-OFF
Blank	24.9	8.04	7.88	9.5	7.5	314	5	5	5		Date 2/7/10
50%	249	7.60	8,રૂપ	9.2	7.5	541	5	ς	5		Test Solution Prep PA
100%	24.9	7.46	8.47	9.7	7.6	812	Š	S	Š		New WO DL
											Renewal Time 1030
											Renewal Signoff MV
											ON MO UNITED ON PRO
Meter ID	33A	1140	ρΗI	62007	RVOA	£05					
Blank	25.0	8-05	7.97	9.6	8.5	306	s٦	5	5		Dale 2/8/10
50%	750	7:15	8,28	9.5	8.4	579	5	5	5		Test Solution Presp
100%	25.0	7.70	<i>የ.5</i> ን	10.1	8.2	828	. 5	5	4		New WQ
											Renewal Time
											Renexal Signoff
											Olawo HV
Meter ID	3 <i>5A</i>	PH03	PH II	Rpoz	RDOI	€c 03					
Blank	25.0	7.87	7,90	10-7	7,9	310	5	2	5		Date 2/1/12
50%	25.0	7-86	8,34	9,2	7.9	569	5	2	5		Test Solmion Frep
100%	15.0	7.58	8.51	10.5	7.8	808	4	5	4		New WQ J7
											Renewal Time
											Renewal Signoif Jan
											OH WO
Meter ID	13A	PHII	PHOZ	ADOL	RÞ03	Eloy					
Blank	254		7.94		1.4	3 <i>5</i> 4	5	5	5		Date 4/6/10
50%	25.A		8.21		7.6	612	5	5,	5		Termination Time
100%	15.4		8.51		7.8	854		<i>5</i> !	4.		Termination Signoff  Jew
											on so
Meter ID	334		Ph03		P\$03	Elug					

Citent:_		cision Analyt	ical	Organism Log#:	5040	Age:	248hrs
Test Material:		Inlet to Res B		Organism Supplier:	Env	in Scien	Ces
Test ID#:	37839	Project #:	15695	Control/Diluent:		EPAMH	*
Test Date:	2-4-10	Randon	nizations	Control Water Batch:		282	. (8.4)
				Treatment:	р	H 9 Filtration	

Treatment	Temp	Ď	H.	D.O.	mg/L)	Conductivity		# Live C	Organism	S	GIGN OF
	(°C)	New	- Olq	New	Old	(µs/cm)	A	В	C		SIGN-OFF
Blank	25.5	7.13		8.4		350	5	S	5		Z-4-10
50%	25.5	7.05		69		704	5	5	5		Test Solution Prep JZ
100%	25.5	6.93		9.3		1152	5	5	ζ		New WO 2
											Limitation Time
											Intuation Signoff
											Sample ID 03374
Meter ID	30A	P13-89		RPOL		ecc3					
. Blank	25.4	8.05	793		8.2	277	5	.5	5		Date 2 /5 // D
50%	25.4	8.24	8.34	8.0	8.0	<b>U</b> 53	5	5	5		2/5//0 Test Soludos Prep
100%	25.4	8.16	856	8.6	8.0	1133	5	5	5		New WO
											Renewal Time
							TO S				Renewal Signoff ##
							7				oid wo BIH
Meter ID	30A	<b>DH03</b>	MI	RDOT	RD03	E004					
Blank	<b>25.</b> 1	7.88	6.7Z	9.8	8.2	38\$	5	-	5		Date 2/1/10
50%	ÙS.I	7,69	8.78	g.b	8.1	725	5	5 5	5		2/6/10 Test Solution Prep
100%	25:1	7.60	8.51	9.9		1194	5	5	5		8m/09
		<b>1</b> 48					Ž				Renewal Time
		, i									Renewal Signoff
											old wo m
Meter ID	3 <b>44</b>	ы <i>Но</i> 4	निमा	1900	1003	En 03					
Blank	રક.ડ	7.84		9.6		Applies in the contract of the contract of the	5	S	5		DAILE 2/3/10
50%	2515	7.22	The Particular Control of the Particular Con	_የ .	111111111111111111111111111111111111111	The second of th	5	5	5		Test Solution Prep PA
100%	25.5	7.30	8.45	વાક	28	1166	5	5	5		New WQ (14)
											Renewal Time
											Renéwal Segnolf
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		314							OII WO M
Meter ID	304	041	الألم	Rod	ROON	<u> 1</u> 2004	19234.23				<b>二</b> り。;;
		-	(					- ALTHOUGH CO.	- Constitution		

Chent:	Р	recision Analyti	ical	Organism Log#:	5040 Age:	LU8HrS
Test Material:		Inlet to Res B		Organism Supplier:	Enviro	Sciences
Test ID#:	37839	Project #:	15695	Control/Diluent:	EPAM	H
Test Date:	2-4-10	Randon	uzation:	Control Water Batch:	1282	2.2.2.
				Treatment:	nH 9 Filtr	ation

Treatment	Temp	p	E si	D.O. (mg/L) Conductivity		# Live Organisms				CION	
Hearlight	(°C)	леж	old	new	old	(µs/cm)	A	В	С	D	SIGN-OFF
Blank	<i>9</i> 5.5	7.4	7.89	9.7	8.4	368	S	5	5		2/3/10
construction of Constitution of the way on the later of the contract of	25.S	765.	control of the second	9.6	9,4	733	5	5	5		Test Solution Prepar
100%	25.5	7.44	8.47	96	<i>ዩ</i> .ን	1154	ک	5	5		FOUR
		an clina an									Renewal Tyris 1426
					TO NAME OF						Renewal Signoif
											ojawo 4V
Meter 1D	PA	(M)	PH-09	36.	P767	E(OI_					
Blank	GOLDAN S. Art	877	7.89	<b>4.</b> 2	70.2	380		Annana	<b>S</b>		2/9/10
50%	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	816	S 100 100 100 100 100 100 100 100 100 10	<b>8.</b> 3	757	5	5-	S		Test Solution Prep
100%	Or	<i>16</i> 1,	8.45	9.3	8.7	1179	4_	4_	5		New WO
						The second secon					Renewal Time   1/20   Renewal Signoif
											Renewal Signoff
				Towns Committee			100 mg				OII WO
Meler ID	the malestrate for the st	pH 03	Charles of the San San San San San	1003	K003	Ee03					Date
Blank	244	7.88 7.02	115	10.3	7.3	<u>374</u>	2	5	$\mathcal{S}_{-}$		2/10/19
.50%	the court of management of	<b>7%</b>	difference disconnicts to	And the second second	4.1	751	5	5	5		Sicie Wo Sin_
100%	24,4	670	4.18	10.3	8.0	1156	4	4	丢		Sn-
											Renewal THE 46
											Renewal Signati
											HQ WG
Meter ID	301	olli	<b>71)</b>	(2000)	2002-9	<i>ECO4</i>					Date:
Blank	15.5		7.92	Harris I	6.6	400	5	5	5	100	2. 11, 16 Termination Time
50%	25.5		8, 20		7.1	8 t j	5	4	5		1\\5
100%	25.5		8.34		7:1	(212	4	4	5		Old WO
											E#4
						er en seure de la company					
			10.00	1000							
Meter ID	20A		PH 03		Root	ELOY					

Client:	Pr	ecision Analytica	1	Organism Log#: 4	5040	Age: LU8hr
Test Material:		Inlet to Res B		Organism Supplier:	ENTO	Sciences
Test ID#:	37839	Project#:	15695	Control/Diluent:		 ЕРАМН
Test Date:	2-4-10	Randomiza	tion:	Control Water Batch:		282
				Treatment:	nH'	3 CIR SPE

And the second of the second o	Тетр		Ħ	י סית	me/L)	Conductivity	r v	in a de la comp	lrganiliji	6	
Treatment	(°C)	New	Old	New	Old	(µs/cm)	A	В	C		SIGN-OFF
Blank	25.5	7.36		8.6		535	2	ζ,	5		2-4-10
50%	25.5	7:21		8,6		777	5	5	\$		Total Solution Prep
100%	<i>2</i> 5.5	703		76.6		1205	5	5	S		HAND RU
											Malle Time
											INDIANA SIGNOF
											23374
Meter ID	30 <i>n</i>	PHOP		RD02		E03					
Blank	<i>9</i> 5.4	7,54	2.72	8.1	8.2	513	5	.5	5		2/5/10
50%	<i>9</i> 5,4	8.01	8:10	8.క	81	7.65	5	5	5		Jeti Solulion Prep
100%	25.4	8.06	9 ₀ .23	4.5	7.9	1260	5	.5	5		₩o <b>X</b> B
e and the field											1150
											Renewal Signoff ##3
											BH.
Meter ID	304	PHOS	ph1\	<b>STO</b> T	\$003)	EC04	糖識		e j		
Blank	95·1	7.86	8.05	4.7	TA	<u> </u>	5	5	5		Park 2/6/10 Trat Solution Prep
50%	25.1	7.][	7.91	9,5	<b>4.</b> D	<b>86</b> 9	5	5	5		Teh Solution Prep
100%	25.1	6.71	¥ 25	9.6	8.1	1318	5	5	5		Merch Com last
			1								Renowal Tiplip
											Rive wall Signoff
		100									tiliwo JZ
Meter ID	20A	3H0971	PHI	RPOI	ROOS	EC 03					
Blank	255	733	7.47	4	4.7	617	6	7	5		1/2/p
50%	25.5				2.7	764	5	5	5		Ten Stration Prep
100%	25.5	7.00	7.87 7.48	9,8		Ja8 J	5	5	5		144 MA
<b>K</b> aroliki	100 B										Formal Time
											Kenera (Signali)
						9,000	e orie	ALCOHOL:	Han Ta		Mw9YL
Moler ID	JOA	1140	OHIL	RPOD	2002	EC 04	100 (S)			Park Park C	
		<b>,</b>						إرائنا السنددد			

Client:	Precision Analytical	Organism Log#: 5	040	Age: $\angle$ 4	18hrs
Test Material:	Inlet to Res B	Organism Supplier:	Envi	ro Sciences	<del>**********</del>
Test ID#:	37839 Project #: 15695	Control/Diluent:	V 2.	ЕРАМН	
Test Date: 3-	7-10 Randomization:	Control Water Batch:	, a, 22	1282	Table 87
	eri Artua Mari	Treatment:		pH3 C18 SPE	

Territorial III 199	Temn	Salar e c	ili i		and I	<b>.</b>		f1.	Contract of		Le transport de la constant de la co
Treatment	Temp (°C)	new	old	D.O.	(mg/U) old	Conductivity (µs/cm)	A	≱LiveΩ B	4222 Page C	is. D	SIGN-OFF
Blank	255	7.52	7.76	9.9	8:2	53	5	3	3		"Z/8//0
50%	25\$	7.71	7.87	9.6	8.3	783	5	J.	<u>;                                    </u>		TEST Solution Prep.
100%	<b>245</b> 5	757	7.99	9.4	9.3	1278	ح	ک	Ē		TOUS
											1742a
			George III	1							Referral Signoff
											MW IV
Meter ID	204	PHIL	PH 69	1200	RDv 3	FEM!					311
Blank	the same of the same	7,56		9-3	7.6	571	No. 762 V. Atmos		5		2/02/9/10
50%	25,7			Section of the continues of the section of the sect	7.8	820	Com To	200	<b>7</b>		
100%	25,2	736	795	9.1	7.8	1281	5	5	5		IF.Win
					a di	1950 1860					Heneval Time
											Ranewal Samer:
											wind D
Meter ID	10 45 may 25	ρH≎3	9403	An Additional Section 2017	Rp63	Ee03					
Blank	100	786	The second second	10.0	7.7	527	4	3	5		2/jo/jo
50%	Section of the section	7.15	o dimendella segui	9.6	Seattle services of	818	5	5	5		Teat Salatinia Prep 200
100%	<u> </u> 245.	<u>(, 70</u>	7.79	Jö. y	81	1294	S	2	اک	1	New Will Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Sylly Syl
	56										17246
											Reinewal Signoff  JAN
Total Control		200									OM OWER
Meter ID	O _D A.	PHI)	Pil	por	1702	Eco4					Dala
Blank 50%	25.5		7.60		7.4	583	3	<b>.</b>	14		1.11.10
AND THE PERSON AND THE PERSON AND PARTY.	₹5.5		7.79		7.2	872	7.0	34.	5		1115 Terannialium Signoff
100%	35,5		7.82		7.1	1472	5	2	-5		EKŁ Ottowo
100											EXX
	200		10000								
Meter ID	301		pHo3.		RODI	Ecoy					

Client: _	Pre	cision Analytica	al	Organism Log#:_	5034	Age:	LUBLOS
Test Material: _		Inlet to Res B		Organism Supplier:	envir	0	**
Test ID#:	37837	Project #:	15695	Control/Diluent:	E	РАМН	
Test Date:	7/3/10	Randor	nization:	Control Water Batch:		1282	
				Treatment:	pHi	C18 SPE	

Treatment	Тетр		Ĥ a		(mg/L)	Conductivity			rganisms	 SIGN-OFF
<u> </u>	(°C)	New	Old	New	Old	(µs/cm)	A	В	С	
Blank	75.0	7.76		9.6		315	5	5	5	Date 4.3.10
50%	25.0	7.44		9.6		566	5	5	5	Test Solution Prep
100%	Z5.0	7.32		9.1		812	5	5	0	New WO EKK
										Initiation Time 1880
										Initiation Signoff
										Sample ID
Meter ID	33A	PH 11		Roos		డబక				
Blank	25,0	7.75	8.02	8.6	7.4	317	5	5	5	Date Z-4-10
50%	25,0	7.70	8.34	8.2	7.5	SLA	5	5		Test Solution Prep 57
100%	25.0	7.65	851	8.5	7.2	815	5	5	S	New WO
										Renewal Time 1145
										Renewal Signoff
										Old WQ M.O.
Meter ID	1504	PHILL	PUV9	P1203	2002	इ.८ <del>०</del> म				
Blank	25.1	7-7Z	8.23	9.7	7.1	325	5	5	5	Date 2/5/j0
50%	25.1	7.86	8.20	9.5	7.3	556	5	5	5	Test Solution Prep.
100%	29.1	7.88	8.32	9.5	7.3	827	S	5	S	New WQ
										Renewal Time 1240
										Renewal Signoff
										ola wo
Meter ID	133A	p #4¶	₃ H09	₽æ <b>]</b>	THU SO	Eco3				
Blank	<b>25.</b> 0	7,83	272	10.0	7,8	311	5	5	5	Date 2-6-10
50%	15.0	8.03	9./3	9.7	7.9	063	5	5	5	Test Solution Prep
100%	15.0			10.0	8,0	838	5	5	5	New WQ
										Renewal Time /430
										Renewal Signoff
										oldwo 57
Meter ID	<b>33A</b>	pHN	PHII	RPol	<b>*20</b> }	E0.63				

Client:	Pı	recision Analytica	d .	Organism Log#:_	5034	/ Age:	c44hs
Test Material:		Inlet to Res B		 Organism Supplier:		CNV'20	
Test ID#:	37837	Project #:	15695	 Control/Diluent:		ЕРАМН	
Test Date: _	Z/3/10	Randor	nization:	 Control Water Batch:	A Land	1282	
				Treatment:		pHi C18 SPE	

Treatment	Temp	į	<b>1</b> #	D:0.1		Conductivity		# Live O	rganisms	· .	SIGN-OFF
and the state of t	(°C)	new	old	new	old	(µs/cm)	Α	B	C.	D	and the state of t
Blank	249	8.03	7.49	9.7	7.4	339	5	S	S		Date 2/7/10
50%	24.9	8.19	8,27	9.2	7.5	552	4	5	5		Test Solution Prep PA
100%	249	8.28	8,49	9.6	7.5	818	5	5	ろ		New WQ QL
											Renewal Time 10 30
											Renewal Signoff
											он wo Д
Meter ID	34	Pn 09	aH.I	R003	RVO	E007					
Blank	25.0	8.06	7.90	9.6	8.5	310	5	5	5		2/8/10
50%	Z 5.0	<b>8-2</b> 2	8.27	9-4	8.	585	4	5	5		Test Solution Prep PA
100%	25,0	8-28	<b>8</b> .52	9-8	8.1	<i>8</i> 33	5	5-	5		New WQ NVS
											Renewal Time
											Renewal Signoff
											olawo 🏨 🗸 🗀
Meter ID	33A	eH03	PH 11	RD 02	RDD]	Ec 03					
Blank	15.0	7,90	7.78	to. 6	7.7	3//	5	5	5		Dale 2/9/10
50%	25.0	8.23	8-30	9.8	7.6	572	4	5	5		Test Solution Frep
100%	25,0	8,29	8-48	10.4	7.4	810	2	5	5		New WQ JT
											Renewal Time
											Renewal Signoff
											ON JT
Meter ID	135A	PHII	PHo3	RDOL	Apo3	F604					
Blank	25A		8.12		7.7	329	5	5	5		Date 2/10/10
50%	25.4		8.26		7.6	(010)	4	5	5		Terramanon Time
100%	25.4	1.9900000000	8.51		7.4	832	5	5	5		Termination Signoff
											Old WQ
											<i>در ہ</i>
Meter ID	271		Phn3		1063	Lun5					
Meter ID	33A		Pho3		1003	£105					

Client:	Precision Analyti	cal	Organism Log#:	5040	Age: 48hr	Š		
Test Material:	Inlet to Res B		Organism Supplier:	Enviro	sciences			
Test ID#: 3783	9 Project #:	15695	Control/Diluent:	E	РАМН	_		
Test Date: 24 -1	O Random	ization:	Control Water Batch:	128	-82			
			Treatment:	ρНα	C18 SPE			

Treatment	Temp	P	Ħ.	Ď:O,	mg/L)	Conductivity	1 m	# Live (	Organism	13	SIGN OFF
	(*C)	New	Old	New	Old	(µs/cm)	А	В	С	Titlett	SIGN-OFF
Blank	25.5	7.87		4.4	200	348	2	5	5		Dale Z-4-10
50%	25.5	7.12		87		710	5	5	5		Test Solution Prep 72
100%	∂S.5	699		8.8		1140	S	5	5		New WO 2
											Initiation Time:
											Initiation Signoff
											Sample ID
Meter ID	30A	PHo9		820°5		E63	15000				_ <i>23</i> 3.74
Blank	Ø5.4		<b>4.97</b>		8.2	234	5	5	5		Date 2/5/10
50%	25.4	And Parliament and Parliament	8.32	the state of the s	8.1	698	5	5	5		Test Solution Prep
100%	75.4	8:15	A 100 Carlo	8.U	8.1	1140	5	5	5		New WQ DA
											Renewal Time IUSO
						real Part					Renewal Signoff
											ola wo
Meter ID	30A	JH03	PhN	RD02	RD03	EC04	90.0				BIT
Blank	25;ì	7.87	. XXX-11-11-13	<b>4.7</b>		354	5	5	5		Date:
50%	<b>2</b> 5.1	2,04			8.0	7450	5	5	ュ ち		2/6/10 Test Solution Frep
100%	25.1	6.40	8.51	9.6	a part of a few transfer of the said of	1214	5	5	<u>5</u>		New WO
				Balla	Z.Willi	<u>  Al  </u>	5 5				Renewal Time
											. IGIO
											9m JZ
Meter ID	30A	pHo9/	PHI	Wo!	PLØ5	ELO3					
and the second s		9.80	5.4	9.3	,	342	5	2000			Date // /s-
	28.5	re	A service of the service of the	a.d	7.6	<u>216</u> 749	5	5			Test Solution Prep
Commence of the Commence of th	25.5	and the second section in the second	Control of the Contro	4.a 4.7			5	2	2		New WQ ()
	シン	7,44	414A	41/	7.7	1189	<u>ب</u>	<u>ح</u>	5		CC7 Renewal Time
OSPA 1											COO Renewal Signoff
	(2) (2) (1) (1) (2) (3) (4)									<b>***</b>	PA Old WO O O
				50 -XI							CG
Meter ID	30A	PHII	1149	ILV OG	KIZON	EC04					

Client: _ Test Material:		cision Analyti Inlet to Res B	cal	Organism Log#: Organism Supplier:	5040 Age: Enviro Sch	ences
Test ID#:	37839	Project #:	15695	Control/Diluent:	EPAMI	
Test Date:	2-4-10	Random	ization:	Control Water Batch:	1282	-
,				Treatment:	nH9 C18 5	OPF .

e han a man an east of the same of		Augustania ilijaania		a processor of constant control of	Commence Section (Section Commence)	Section of the sectio			A Maria (A Paris) (A Paris) (A Paris) (A Paris) (A Paris) (A Paris) (A Paris)	- Committee of the comm				
Treatment	Temp	ēн		one year of broken your general trans-	mg/L)	Conductivity (µs/cm)		TLive Or		SIGN-OFF				
X	(°C)	new	old	neer pla		<u> </u>	A.	8.	Ę	Ďλ				
Blank	US-5	1.90	7.96	9.7	8.6	345_	S	5	5		#*'U\\$/p			
50%	as, 5	7.61	ઉ. <b>ી</b> વ	95	8.6	750	S	5	. <b>5</b> 5		PA			
100%	15.S	7.9	8,41	7.7	8.5	<u>M5</u>	ک	5		FOUS				
											142			
											Kemiewal Signoff			
											ill±wo HW			
Meter ID	301	Pall	7H 09	PIPON	<b>P103</b>	Eor								
Blank	252	7-48,	7.93	94	8-1	360	<b>5</b>	S	\$		2/9/10			
50%	25.2	绸	824	9.0	8.[	760	5	5	2					
100%	25,2	-7; ⁶ 0].	8,41	9.1	8-7	1202	7	5	\$		May WQ SP5			
	12.33										Remarkal Time 1420			
											Remewed Sign off			
									er.	7 (T)	DZ OIĘWO			
Meter ID	30A	рноз	<b>₹</b> ₩55	P.Dol	RD03	€eø3								
Blank	Ma	3.87	7.50	10.2	7.9	351	5	Ŋ	$\mathbf{x}^{-}$	, al	Date  2/10/10  Tell Solder Prep			
50%	295	7.09	1.07	7.5	1.9	769	3	M.	÷		Fressball-Prop Sec			
100%	nd toleran distriction	6.72	Q.U7	10.4	1.7	1215	5	\$	Ť		*= *°			
						E Constitution	100				Renoval Time			
											osawo Mo			
Meter ID	30A	DHI.	ph.U.	ppoz	COOL	есон								
Blank	15, <i>5</i>	100	7.97		8.3	373	5	5	5		ā. II. 10			
50%	15.5		8.11		7.5	835	5	5	5		Termination Time			
100%	15.5	100 Miles	8.22		7.1	[333	5	5	5		Terminallen Signo(T EML			
345 6 6	100							le e			ENHWQ ENK			
			7.33											
		***				50 (50 (50 (50 (50 (50 (50 (50 (50 (50 (				1000				
Meter ID	30A		2H 83		R BOL	ECOY	1	\$20 e S						
	100	DOMESTIC STATE OF THE STATE OF		The straight was			Participan	THE COLUMN	Tree Contract	province of	Law Street Street Street Street Street			

# **Appendix E**

Test Data for the Evaluation of Recovery of C18 Column Eluate Toxicity to *Ceriodaphnia dubia* 

# Short-Term Chronic 3-Brood Ceriodaphnia dubia Survival & Reproduction Test Data

Test Date: 12/2/69	Lab Waler	SIGN NOW	J.O.NDIG	Date, *** Date, ************************************	Soln Prep: Rev. Old WQ: X Counts. J. A.	Soln Prep3 Old W@: AH Time: 157	Solin Preps. 7.7 Old WQ: B F Time. 13.32	Sofn Prep: 171, 174, WO: SG. Counts: 5C. Sofn Prep: 174, 174, 170	Solin Prep: See Old WQ: Kt Time: 184	Sol'n Prep; 12784 Mey WQ: \$4.0 Counts; 14.0 Sol'n Prep; 16.20	Sol'n Prop. Ref. Old WQ. 16 Time: 1 700	Date: New WQ: Counts: Softn Prep: Old WO: Time:	Mean Neonates/Fernale = 240
Test Date	Control / Diluent:												
2		Survival / Reproduction		0	0	0	9	ל	0	O		Part of Barbara Maria Ma	20
Inlet to Res B	Treatment: Baseline	Survi	q	0	0	0	0	5		0	10		Total= 350 24 28 27 26
Shor			р ] с	0	0	0	<b>၀</b> 9	9 h	2/   8	<u>ල</u> ල	12/3		24 28
Sample ID:			Ą	0	o	O	0	9	6	0	, S		30
welo	37046	Temp	(၁)		[9]	25.9	25.3	7.52	212	25.5	285		Total=
ron Ca		Cond.	(µS/cm)	228	12H	226	<u>ଜ୍ୟ ଅ</u>	238	216	214	397	Telefonya da aya	
al - Che	Test ID:		pIO		8.1	Î. þ	1.6	Q.8	G. 6	9.0	8.5		
nalytic	•	D.0.	New	5.6	0'6	8.5	4.7	9.5 8.0	ઉંક	9.0	١	9	Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Paradori Par
Precision Analytical - Chevron Cawelo	15480		PIO		8.33 8.19	8.17-18.309.5		8.05	932	8.108.36	8.22		
		Нď	New	7.95	8:33	8.17	7.93 8.44	30.882.7	8:39	8.10	l		
Client:	Project #:	Day	013040 103040 104040 104040	0	-	2	33	4	S	9	7	∞	192012 192012 192012 192012 192012
	<u>P</u>					<del></del> -	louto	٠. ر	Mate	નહ. [			

Short-Term Chronic 3-Brood Ceriodaphnia dubia Survival & Reproduction Test Data

12/2/09	Lab Water	SAMPLEID	DERGEOGRESIA										Mean Neonates/FemalG == 26. 6	SAMPLEID		22772	25.522	2272	2777	25422	22772	J2 77 2			Mean Neonates/Female = 16.6	
Test Date:	Control / Diluent:																									
Res B.	9	Survival / Reproduction	D E	<b>9</b>	0	0	ල	l _o	7	<u>0</u>	2   2	1919-1919 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 19719-1909 1	2( 28	Survival / Reproduction	D E	० ७	ع و	00	00	3   I	9 6	000				The second secon
); Inlet to Res B.	t: Baseline	3	] ວ	0	3	0	0 0	7 5	ا 0 ا	<u>ئ</u>	<i>⊘</i>		36	Surv	Û	0	0	0	0		5 8	0	139		2%	
Sample ID:	Treatment:	A or comment of Library (Control of Control	AB	0	<u>ව</u>	0	0	5 5	88	이 시	3 10		20 23		AB	0	0	0	0	0 1	62	0	4	la code (s)	15 10	
Cawelo	37046		(μS/cm) (°C)	7.	Ş	537	495	2/5	નવવ 📗	†15	*	90000000000000000000000000000000000000	Total=	Cond.	(µS/cm)	<b>売8</b>	S	9	72	108	Ŋ	808	8 8		Total=	
Precision Analytical - Chevron Cawelo	Test ID:	10	St) PIO	537	8.0 465	3.8 5	7	8.2 5.8	9.6 46	85.5	8-1 56		0000000 000000000000000000000000000000		SM) PIO	8	8.1.8	_	7.5 802	(G. 1 8,	9.2 245	2,3	88 9.1		00000000000000000000000000000000000000	
Analytical	L	D.O.	New	8.6	3 9.6	39.6		8.07 0	5 9.7	9.90	9			D.O	New	10.3	5 9.7	8-6 0		1	F.01	9.04	1		Parties and the second	
Precision	15480	pH Hd	New Old	7.78	8,14 8 53	P4 8.53	1.70 8.84	2.20 8.40	8.12 8.53	04.8 EF.	8-46		1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 100030 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 100030 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 100030 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 1000300 100030	H	New Old	7.74	7,43 8.65	-	1.96 40	7.67 8.59	793 0,62				0 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	
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ii test Data	Test Date: 12/2/01	Lab Water	HO NOIS	TIO-NOIS	Sol'n Prep. PA Time: / S.	Sol'n Prep: R4 Old WQ: 86 Time: 1305	Solin Prepiet Old WG: 614 Time: 151	Solin Prepr. 77 Old WQ: 614 Time: 1750	Solfi Prep: PA Old WQ: Time: 123	Solin Pren: Pt. Old WQ: Y Counts Pt. Solin Pren: Pt. Old WQ: Time: Lixs	200	LIGION WO!	Solin Prep. Old WO: Time:	Mean Neonates/Fernale = 8 (. O.
Short-lerm Chronic 3-Brood Cerioaaphila aubil Survival & Nepi Oducuon 1631 Data	Sample ID: Inlet to Res B Test Date:	Treatment: pHi C18 SPE Elution Control / Diluent:	Survival / Reproduction	A B C D E		0 0 0 0 0	0 0 0 0		b 3 2 3 4	ō		255/12/8/12/10/13		28 14 21 19 23
3-Dro(	0	37046	Temp	[0	25.9	28.7	259	<u>Q</u> 5.4	7.92	01 67.25	25.5	28.5	34	Total=
ronic	ron Ca	37(	Cond.	<u> </u>	122	43	336	768	225	220	218	252		3 9 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9
I C	Client: Precision Analytical - Chevron Cawel	Test ID:		PIO	or notice to the control of the cont	0.	ج 0	9.	10:4 8.3	10,0 93	7,867	ار ب		DU AGE DE MANTENE DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DE LA COMPANIA DEL COMP
ort-le	nalytica		D.O.	New	4.4	9.0	0.4.0	2.2	1	0'01		(		control of the contro
こ こ こ	cision A	15480		plo	apedos por control of the control of	8.32	8	9	8.10 8.27	8.12 8.17	8.13	8-12		100 100 100 100 100 100 100 100 100 100
	Pre	15	E		8,00	\$ . VS	200		8. 10	21.8	83	ì		A D D D D D D D D D D D D D D D D D D D
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# Short-Term Chronic 3-Brood Ceriodaphnia dubia Survival & Reproduction Test Data

Test Date: 12 / 2/09	Lab Water	CANDIETD	SAIVITAS IIS										Mean Neonates/Female = 22.8	CANAID ITA	SAMILLE ID	26422	25 2 2 2 2 2	2772	7525	ru	7tt 22	26.822			Mean Neonates/Female = $I/6$
Test Date:	Control / Diluent:	, in the second																							
m	pHi C18 SPE Elution	Survival / Reproduction		9	0	0	S	3	9	O	J. <del>7.</del>	Participants of the second sec	154	Survival / Reproduction		0	D	O	0	2	O	り	<u> </u>		
Inlet to Res B	C18 SP	Survi	D	0	٥	0	0	2	Ť	O	1 9		' p Z	Survival/	Q	0	ວ	0	Ð	3	0	Ō	7		<u>×</u>
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Sample ID:	Treatment:		AB	0 0	۵ ن	00	0	<b>4</b> 4	∞ ⊗	8	J   7		19-1-20-21		A B	9 0	O 11/0	-	٠ 0	,	ን	ر ا	)	1	0/×  h
0		Gmp			100000000 1000000000 10000000000000000	100001000 100001000 100000100 100000100 10000000 100000000	01004110 010040101 010040101 010040101 010040101	10101111	0 P 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0		<u> </u>	22014742 2344444 2442444 2442444 24424444 2442444444	)otal=   7			**************************************		######################################	<b>)</b>	2	7	Ballagana 	Q		Total=
Precision Analytical - Chevron Cawel	37046	Ε.	(#S/cm)	229	209	227	212	237	27.7	22.1	235	0000011 0000011 0000011	T	Cond.	(иЅ/сш)	123	217	226	oh2	229	216	220	23٦		Ц
- Chev	Test ID:		Old		7.8	B-0	7:	д О.	8.U	٦.٩	1.1			).	Old		7.8	g,G		19	 6	1.8	7-4	ý	
ıalytical	<b>-</b>	D.O.	New	4.3	4.1	10.0	4.4	10,3	0.0		\			D.O.	New	9.3	8.9	8-6	d.6	10.7	6.6	. 1	t		
ision An	80		PIO		\$ .27	27.8	8.xh		9.13	8.05	8-11			7	PIO		क्षर 8	16.8	18.4°	8.14	8.12	LJ 8	8.09		
Prec	15480	ЬH	New	8.05	8:20	3.18	1.87	7.82 18. 13	8.17	_	1			hИ	New	8.07	8,19	8.16	1.83	8.00	8.19		1		
Client:	Project #:	Day		0		2	3	4	5	9	7	∞		Day		0	_	2	æ	4	5	9	7	8	
	Pro					<del></del>		%(	)\$											%0	10				

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# Appendix F

Test Data for the Evaluation of Recovery of C18 Column Eluate Toxicity to Fathead Minnows

Client: Test Material:		sion Analytic let to Res B	al	Organism Log#: Organism Supplier:	4905 ARS	Age:	448hrs
Test ID#:	37045	Project#:	15480	Control/Diluent:		EPAMH	
Test Date:	2/2/09	Rando	nization: 3, 3,/	Control Water Batch:	1761		
				Treatment:		Baseline	

	~				Table 1 and				Page		
Treatment	Temp (℃)	New	Old	D.O. New	(mg/L) Old	Conductivity (µs/cm)		# Live C B	rganisms C	D	SIGN-OFF
Lab Water Control	25,9	8,42		9,3		410	5	\$	5		Date   2 /2 /0 T
50%	25.9	8,07		9.6		605	5	5	5		Test Solution Prep
100%	25.9	7,81		10.3		805	5	5	5		New WQ SV
											Initiation Time /6/5
											Tongic Constitution Signoff
											Sample III. ZZ77Z
Meter ID	39 A	PHIL		R00 2		Ews					
Lab Water Control	25.8	7,97	1.77%	9,3	8.1	385	テ	5	5		Date   2/3/69
50%	25.8	7175	8.20	9,4	7.2	584	5	5	5		Test Solution Prep
100%	2 <i>5.</i> 8	7,61	8-46	10.4	8 - 6	806	5	5	5		New WO. SL
											Renewal Time //00
											Renewal Signoff J7
											Old WO 22772
Meter ID	32.A	PHIL	Ph12	R.703	RD03	EW4					
Lab Water Control	25.7	8.06	7.80	9.4	7.8	3 <b>87</b> -	5	5	5		Date 17/4/03
50%	25.7	8-03	8.23	9.7	8:0	606	5	4	2		Test Solution Prop JU Sent 40! 77.772
100%	2527	7.92	8.51	10.0	8.0	819	5	5	5		New WY K
											Renewal Time: 15/15
											Renewal Signoff 57
											Old WQ
Meter ID	33A	PhIZ	phiz	2001	RDOI	<u> </u>					
Lab Water Control	25.7	7.81	7.73	9.2	8.2	400	Ч	5	6		Date 12/5/09
50%	25.7	7.67	8.28	9.8	8.2	597	б	.ч	5		Test Solution Prep
3000	25.4	7.54	8.47	11.	8,3	800	5	5	5		DH BH
											Renewal Time
											Renewal Signoff
											ONLYGE BOX 5G
Meter ID	33/1	194	ु । पुष	PD03	PD0 2	FC02					-54-07 W

Client:	Precision A	Analytical	Organism Log#:	4905	Age:	248 hrs
Test Material:	Inlet to	Res B	Organism Supplier:	V 2 (4 1/2 ft 1)	A 85	
Test ID#:	37045 Projec	rr#:15480	Control/Diluent:		ЕРАМН	ofess Tests.
Test Date: 12/	1/09	Randomization: 3.3.1	Control Water Batch:	1261	7 - 7 - 1	
			Treatment:		Baseline	

		/	Index or manage himman	gen Amp, that the first							
Treatment	Temp (℃)	new	H old	D.O.(	mg/L) old	Conductivity (µs/cm)		Constitution of the second	rganisms		SIGN-OFF
Lab Water Control		enter searce :			ti saje da	<u> </u>	A	В	C	D	
March 1997	25.1	7,79	7.68	9,5	8.5	377	3	5	4		Date 12/6/69 Test Solution Pres
50%	25.1	7,71	8,34	9.6	8.4	545	5	4	5		Test Solution Prep
100%	25.1	3163	3.64	10.7	8.5	861	5	4	4		New WQ
											Renewal Time
											(DDB Renewal Signoff
											Old WO COL
Meter ID		PHIZ									8H
Lab Water Control	334		PH12	60.0/	P002	ECOM					Date
	156	8,04	7.69	9,4	1.7	373	3	5	4		27109
50%	25.6	7.92	8-25	93	7-6	583	S	4	5		Test Solution Prep
100%	256	183	8-49	loil	7-7	805	3	1	1		Sew WO SU
											Renewal Time
											136 Renewal Signoff
											Old WQ
Meter ID	338	PHIZ		4-2							NVS
Lab Water Control	100	wi	eH 14	epos	ROO!	£ws					Date O.O
	255		7.64	9,2	8,4	344	3	5	4		12/0/09
50%	255	10 (10 (10 (10 (1) 10 (10 (10 (10 (10 (10 (10 (10 (10 (10	8.16		7.9	566	5	4	5		Test Solution Prep
100%	255	料解	8.52	<b>E003</b>	8.1	· <del>Ee 03</del> 813	3	1	1		New WQ
											Renewal Time
											Renewal Signoff
											Old WO
Meter ID	33A	Ph14	DH12	RD03	PDD2	a 07					LQ
Lab Water Control	25.5			روري	2002	<u>E03</u>	7	<u></u>			Date
71 - W. 12 - 1 - 1 - 1 - 1 - 1			7-87		8.4	361	3	2	4		72/9/09
	25.5		8-30		8.6	586	5	3	5		0840
£001	Z5,5		8-52		8-6	831	3	0			Termination Signoff
											Old WQ NVS
Meter ID	33A		<b>eH</b> 09		faa1	£c 03					<del></del>
	<u> </u>		TULL		<b>MO3</b>	(( V)					

### Larval Fathead Minnow Biomass Value (Dry Weight) Data

Client: Precision Analytical Test Initiation Date: C12 09 Test; Species; Pimephales prometas

Test Material: Inlet to Res B Tare Weight Date: 12/6/09 Sign-off: SL

Test ID#: 36436 37045 Final Weight Date: 12/5/09 Sign-off: FOUR

Pan ID	Treatment/ Replicate	Initial Weight (mg)	Final Weight (mg)	# of Organisms at Test Initiation	Biomass Value (mg)
1	Blank A	143.43	144.62		0.238
2	B	143.02	145.11	5	0.418
3	C .	177.43	178.95	5	o-30H
4	50% A	146.19	147.65	5	0792
5	<b>B</b>	151,02	152.02	5	0700
6	<b>C</b>	173.63	174.95	5-	O. 76A
7	100% A	145, 43	146.02	5	o. 117
8	8.	165.04		5	0
9		177.66	177.89	5 ········	0.230
QÂÌ		157/81	157.80		
QA2					
Bälance ID		#)	ĦJ		

Client:	Precision Analytical	Organism Log#:	4905	Age: 48 hrs
Test Material:	Inlet to Res B	Organism Supplier:	ABS	
Test ID#:_	36426 Project #: 15239	Control/Diluent:		EPÄMH
Test Date:	12/2/09 Randomization: 3.3-2	Control Water Batch:	1261	
		Treatment:		pHi C18 SPE Elution

	Temp	įσ	ign .	D.O. (	e en a	Condination		*****		19. 1992 P	Control of the contro
Trealment	(°C)	New	Old	New	Old	Conductivity (µs/cm)	Α	# Live O	rgarusms C	D	SIGN-OFF
Blank	27.9	8,30		4.3		217	5	5	5		Date 2/2/09
50%	25.9	8.29		9,2		309	5	5	5		Test Solution Prep P4
100%	25,9	8118		92		215	5	5-	5		New WQ SU
											Institution Time
											Instation Signost
											Sample ID
Meter ID	33A	PHYL		2002		Ews					
Blank	25.8	<b>\$</b> 107	8.12	9,6	7-8	นา	5	2	5		Date 17 /3/64
50%	25.8	8:10	8-06	9,3	8.4	298	5	5	5		regregation tries.
100%	J.5.9	8,02	გ. 06	9,3	1.9	216	5	5	5		SE-WO SL
											Rimewal Time   100
											Renewal Signoll
											010 WO 8F 2 Z 7 7 Z
Meter ID	33A	PHIL	PhIZ	£003	R D03	EW					
Blank	25.7	8.24	8,11	9.9	7.3	212	5	5	5		Date 1714109
50%	25.7	8.18	7.87	9.8	7.3	300	5	5	4		Iss Solution Prepi STC STAIR C DO: 22-77-2
100%	25-7	8.26	8.16	9.7	8.2	216	5	5	5		New WO
											Renewal Time 15/15
											5 T
											olawo 5G
Meter ID	33A	m 12	Ph 12	P.DO	P-001	Ec03					
Blank	257	8.12	7.94	10.3	6.7	210	б	ъ	5		Date 12/5/09
50%	257	7.98	7.75	9.00	6.6	300	5	চ	4		Test Solution Prep J7 10772 J7 New WQ D 1
100%	257	8.03	7.85	10.2	6-4	211	34	5 Ken	到		New WO B 14
											Renewal Time U15
											Renoval Signoff
											oldwo 36
Meter ID	33A	p1+14	ph14	12003	K003	£C03					

Client:	Pre	cision Analytic	al	Organism Log#:	4905	Age:	<484r5
Test Material:		Inlet to Res B		Organism Supplier:		4BS	
Test ID#:	36426	Project #:	15239	Control/Diluent:	* ***	EPAMI	1
Test Date:	2/2/09	Rando	mization: 3.3.2	Control Water Batch:	1261		
				Treatment:		pHi C18 SPE	Elution

Treatment	Temp	реж	H old	D.O. (	mg/L)	Conductivity (µs/cm)	A	# Live C	rganisms C	D	SIGN-OFF
Blank	251	8.07	3.04	10,5	7.1	209	5	5	5		Date 12 /2 /201
50%	75.1		7.91	10:7	1.3	297	5	5	4		12/6/09 Test Solution Prep PA
100%	25.1	8,02 8,09	795	10:9	1.0	215	2	ァ ユ	4		New WQ
		O U E		Uhr							Renewal Time
											NOOO Renewal Signoff PW
											HUILIWU A
Meter ID	つづみ	かい	At 12	KD01	KDUZ	EWA					R/Y
Blank	26.6	7,91	7.81	9,2	6-0	215	5	5	5		Date 12/7/09
50%	236	8113	7-69	10.0	6.4	298	И	5	4		Test Solution Prep
100%	236	9.16	7.81	10,3	5.4	214	j'	OL	4		New WO SL
											Renewal Time 1 370
											Renewal Sympos
											NV5
Meter ID	434		pH 14	P003	RDOI	€QS					
Blank	25.5		8.04	11-3	8-47.4	208	5	5	5		Date /2/03/09 Test Solution Prep
50%	255	8.11	7,9	18.7	7,4	271	4	4	3		New WQ
100%	25.5	8.03	7.87	10.2	古	715	0				SG-
											Renewal Signoff
											YO
											ou vo
Meter ID	33A	Ph14	:	12 DO3		Ec03					Date
Blank	25.5		8.09		8.4	219	5	5	5		12/9/09
50%	25.5		7.88		8.0	286	170	4	3		Termination Time OSYO Termination Stepast
100%	Z5/5		7.96		7.9	224	30%	-	\ 		Termination Signal
											N V.5
			لإسلاما								
Meter ID	33A		p#09		RD 03	EC 03					

## Larval Fathead Minnow Biomass Value (Dry Weight) Data

• .		17.10.100	
Client:	Precision Analytical	_ Test Initiation Date:	Test Species: Pimepludes promelas
Test Material:	Inlet to Res B	Tare Weight Date: 12 10 09	Sign-off:
Test ID#:	36426	Final Weight Date: 12 17 09	Sign-off:

Pan ID	Treatment/ Replicate	Initial Weight (mg)	Final Weight (mg)	# of Organisms at Test Initiation	Biomass Value (mg)
1	Blank A	16 79	103.87	5	0.416
<b>. 2</b>	<b>B</b> .	l40.%6	142.79	5	0.382
3	c	1648.20	170.22	5	O. 40H
4	50% A	159.71	160.60		0.178
5	18	167.163	168 68		0.210
6	C	179.38	19:0.40	5	0.204
Ž	100% A	151.23		. 5	O
8	<b>35</b>	169.02		5	2.360 AV.
9	C	177.05	177.33	Section of the sectio	o. 130
QA1		139.13	139.03		
QA2		Aughteein ann an a			
Balance ID		#1	#1		

# Appendix G

Test Data for the Evaluation of the Recovery of Sequential C18 Column Elutions Toxicity to *Ceriodaphnia dubia* 

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1/8/10	80;20	SIGN-OFF	The state of the s	3480. K	Sol'n Prepi: St. Old WO: V Of Time: 5 30		別がお	Soln Previde Old WOLDS	A CIU WO	Soft I Prop P C Old WO! HV Time 1550	Solvi Predic — Old WO St. Thus Ise	Sulvi freer Cld/WCl	Moun Nequales (Ferralic 21
Test Date:	Control / Diluent:												
nlet to Res B	Treatment: Lab Water Control	Survival / Reproduction		0 00		000	?   O		O				
Sample ID: Inlet to Res B	Treatment:		A WINDER	0 0	) Q Q	<b>の</b> め	0 0 0	<u>S</u>	0 **	0	0 11 15		6 %    2.4
nevron Cawelo	D: 37342	Cond. Temp	(#S/cm) ('C')	283 25.0	5.56 92.2	#8# #8**		233 2	122		22.9 25.1		Toldal .
Analytical - Ch	Test ID:	D.O.	New Old	9.6	P P P	7.35 4 5 7	9.1	8.5 8.2	8.7 7.9	192 82	9.4		
Client: Precision Analytical - Chevron Cawel	15593	pH	New Old	972	8 14 8.24	X.11 7.35	8 17 846	9.02-8.07. 8.5	7.97 18-26	2024.8 EDF	<u>80</u>		
Client	Project #:	See Day		0	<u>  -</u>	2	3	4	Wate	ds.J	7	8	

# Short-Term Chronic 3-Brood Ceriodaphnia dubia Survival & Reproduction Test Data

1/8/10	80:20		SAMPLE ID										Mean Neonates/Female = 2\. U		SAMPLEID	25732	2000	26722	25.52	22772	22772	2572		Art Person Co.	Wean Neonates/Female≈ 24
Test Date:	Control / Diluent:												Eall Mea												Mean Mean
Inlet to Res B	50% MeOH	Survival / Reproduction		0 0	0 0	0	0 0	5 5	+   <del>                                    </del>	0 0	6 JH 1		21 24	Survival / Reproduction	DE	0 0				$\  \cdot \  \  \mathcal{S} \  \cdot \ _{\mathcal{H}}$		( 0 )			27 20 27
Sample ID: Inle			A W B C	0 0	0000	0000	Q & _	9 7 0	0 2 5	9 0 21					ABC	0 0 0	0 0 0	000	000	2 4 6	10 6 834		-   91   61		38 26 7/11
nevron Cawelo	D: 37342	15	[ (\(\alpha\) (\(\alpha\))	נכנ	977	206	222	1 230	_ [21] <u></u>	612	3 229		Total=		(µS/cm)	223	220	20.7	224	229	07.	572	1 230		Total=
Precision Analytical - Chevron Caw	Test ID:	D.O.	I New Old	9.6	1 9.0 4.7	0.0		9.	8-4498 75	: 72.5	8 7 8			D,O.	New Old	9.6	S 84 8.6	49.38	1.5 7.9	8.3	3 47 178	70.2 8.7	7.7		
Ì	#: 15593	Day Off	New Old	997 0	1 0.0 4.12	2 7.87 7.85	3 8,12 Fr	4 797 8.13	5 7.95 8.4	6 772 8.43	7 - 8.18	8		ay pH	New Old	85%	CO. 7 HO. 9	7.878-34		1 7% 8.11	7.978.53	84.8 tit	6.20		
Client:	Project #:	D						ank		~		<b></b>		F Day		0		7	£	X.	3	9	7	8	

on Test Data	0) (0	Lab Water (80:20	SAMPLEID											Mean Neonates/Female = 25.4	SAMPLEID		22772.	Z277Z	24422	2422	スペーンス	26222	2123			Mean Neonates/Remale:= 24.6
3-Brood Ceriodaphnia dubia Survival & Reproduction Test Data	o Res B Test Date:	50% MeOH Control / Diluent:	≥	D E E E	0	0	<u>0</u>	0	7 4	12 15 11 11 11 11 11 11 11 11 11 11 11 11	9	o 15   15   15   15   15   15   15   15		13 14   19   19   19   19   19   19   19	Survival / Reproduction	D E E	0 0	0 0	0 0	0	7 7	8 8	0	۵ ان		13 12   િ
od Ceriodaphn	Sample ID: Inlet to Res B	Treatment: 50% I	A Committee of the Comm	ATTB	0	0 0	* O O	000	7 4 0	369 T	7 6 0	0 12 11		1 22 JI HI	Sur	ABC	0 0	Ø 0 0	<u>၀</u>	0 0	990		0	11 01 191		27 7.2 Fc
Short-Term Chronic 3-Bro		Fraction: 37342	Cond. Temp	_Old (μS/em) (°C)	124	8.2   127   "	8.0 203	Harrie G	8.1 230	<u> </u>	= 12 8'8	7.7 225		Total=	D.O. Cond.	Old (µS/cm)	115	4.2 22H	8.2 207		8.3   732	12 SIX	g.¢ 724	8.1 235		Total=
Short-Ter	Precision Analytica	15593 F	pH D.O.	New Old New	97 52	7.99 8.17 8.9	8.32 4.6	GNS 9.5	7.94 8.811 8.6		65 158 75	8.22			G Hd	New Old New	7.62	8.18	7.87 8.33 4.8	8.03 8.19 9.8	7,88 8.15 8.8	_	77 8.52 9.9			
	Client:	Project #:	EX. Day		0	-	2	m	4	22	9	7	∞		Day		0	-	7	3	4	\$	9	7	~	

Short-Term Chronic 3-Brood Ceriodaphnia dubia Survival & Reproduction Test Data

on 10st Data 1/8/10	80:20	The control of the co	SAMPLEID										Vien Newherstrammer   B.B.		SAMPLE ID	22772	22272	25 25	742	27.72	25422	25332			Mean:Neonates/Remale:= 2.9 0
Test Date:	Control / Diluent:	lickien.												In the second se	Account of the process of the proces										
ReB	Геон	Survival / Reproduce	DE	0	0 0	0	9	0 2	10 P	10	0 5		12   13	Survival / Reproductio	D   E	0 0	O Q	0	ර   ර		34 34 FE S	165 t.¥.	L/S	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.5
e ID: Inlet to Res B	Fraction: 75% MeOH	6000 III III III III III III III III III	р В	ව ට	0	Ω Θ	0 6	4000	1 45	M. A.N	9		Tr CH	Aug	BCCI	) 0 0	0 0	<u>ဂ</u>	0	0	† †	0 11 9	h( 81 h/	Sweep to the state of the state	૩૦ ૩૯ ૩૦
elo Sample ID:		Temp	(°C)   A	0	Q			i i	C		= =		otnie 725		A	0	0	0	O	7		٥	=		otal= 2.4 3
vron Cawe	37342	75.2	(uS/cm) (	2.17	2.19	2.00	228	88	1223	<b>₹</b>   <b>&amp;</b> )2	122	Character of the Control of the Cont	TD		(иS/сm)	<b>17.73</b>	\$17	hoz	222	122	977	の万	221		Tot
Precision Analytical - Chevron Caw	Test ID:	D:O:	New Old	9.6	4.2 8.7	10.1 8.5	The second	7.2 8.9	9-2163	子 5.4	2, 2	Management of the control of the con		D.O.	New Old	93	9.8 d.P	10.0 8.0	.s 8,0	8.8	89 00	100 8.4 100 8.4	7.7		
ecision Ana	15593		Old		4.20	7 30 8:34 1.	8.03 8.23 II	8.32	7.12 8.57 F	F.04 24 91-5-E	. 80 . 6.			<b>III</b>	N PIO		B.02 g.20 9	8.29	6 67.8	8.3 12.8	7,95 8.46 10	8 4.8	61·8		
Client: Pro		Day pH	New	0/2 0	1 798	2 7.80	3 8.0	4 795	5 7.92	6 78°	1	8		Day	New	0 759	1 B.07	2 7.94	3 8.09	4 7.95	s 17.95	££. 9	7	8	
ฮิ	Project #:	\$57/ck1			·4			suk	18											ΧI					

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-Brood Ceriodaphnia dubia Survival & Keproduction lest Data	Courted / Dilugate																									
<i>hnia dubia</i> Surviva	Inlet to Res B	75% MeUH	Survival / Reproduction	C* D B	0	0 0	<b>0</b>	0	0 6	8	12 6	50 (3		92 56	Survival / Reproduction		(a)		P P		ان الاجاري . الاجاري الاجاري الاجار	No.	2014	0 0		
rood Cerioday	Sample ID:	reatment 7	d.	A B	0	0 0 0	0 0 0	0 0	0 x b	+ 01 0	11 0 2/	6 12 19		-   52   54   F	The second secon	A B C	0 0	0 0	0 0		5 5 0	をはなる。こ	0 0	8:11 0/:1		드   67   61   月
Short-Term Chronic 3-B	Chevron Cawelo	Fraction: 3/342	Cond:   Temp	O]d (#8/cm) ("C	220   E	5.3 1.10.	7.8 202 X	7 222	8.52 2.8	522 6.9	8.8 216	1.7 22 2.1		Total=	Cond	Old (µS/cm)	120	4.2 22¢	8.0 203	7,8 122		+	8.4 (22)	7. C 22.4	<b>A</b>	Total=
Short-Tern	n Analytic		D.O.	Old New	96	8.00 8.9 8	4.9	LIL 9.6 SIIS	8.21 8.7	861	4.7	8.11 - 7			H D.O.	Old New (	8'6	8 1.8 9.18 June		6.4	8.8	t 12 6 24-8	N.	ı		
		Project #: 15593	Day pH	New	b\$2 0	1 7.97	2 7.87 8.28	3 8,06	× 4 7.83	5	859 BJE 9	7	8		Day nH	New	792 0		2 7.77	3 8.00	4 7.9	5 790	6 76/1	Ý	∞	

Short-Term Chronic 3-Brood Ceriodaphnia dubia Survival & Reproduction Test Data

1/8/10	80:20	CAMEBIN										= 70 ma  kell = 250	Mean Neonates/Female 17.6	SAMPLE ID	שוו קדו וואושט	<i>33772</i>	22777	22.722	26622	2272	Z£1.22	2.27.7.2			Mean Neonates/Female = 24.6
Test Date:	Control / Diluent:	and the second s											Mean												Mean Mean
		/ Reproduction:												/ Reproduction											
es B	H	Survival /	Ξ	o	0	0	0	Ś	0	%	L	J	1/8	l / Repi	E	0	Q	0	0	Ŋ	8	<b>O</b>	12		S
Inlet to Res B	80% MeOH	Stu	D	0	0	٥	0	ហ	0	<b>5</b> 0	2		१८२	Survival	D	٥	0	0	0	\$	Ø	, 10 10 10 10 10 10 10 10 10 10 10 10 10	#9  -		74
			၁	۵	0	0	0	Ŋ	Q	<i>∀</i> /∤		)	h#/%		C	0	0	0	ଚ	3	હ	0	2	- A	2
Sample ID:	Fraction:		В	0	ρ	0	0	3	Q	૭	11		12		В	٥	0	0	٥	S	8	o K	<b>t</b> 2		2
Sam	匠		Α.	O	O	O	0	S	O	٠	2	(Protection)	57		Ą	0	0	0	0	2	Q	ķ	<b>9</b>	enticle city	<b>5</b> 2
velo	42	Temp	(ĵ										Total=												Total=
ron Cav	3734	Cond.	(µS/cm)	117	1117	202	۲13	226	682	412	822			Cond.	(µS/cm)	222	2\የ	212	2.20	236	731	1/2	224		
- Chev	Test ID:		Old :		<i>b:</i> %	3.7	88	8.6	2.4	8.5	7.2				PIO		\$Q	8.3	C'3	8.2	<b>ई</b> .प्	G.6	8.0		
alytical		D.O.	New	8.3	J. 1	16.3	10.S	9.3		5'01	١			D.O	New	9.7	Q' b		1.1	9.6	24	99	1	L. C.ETTE	
Precision Analytical - Chevron Caw	93		Old		8.21			3.25	8.13 9	7.7	8.23	10.77st 21			PIO		St. St. Auce	7,18	in in the second		ર્જી.!9  °	8,26	8.20		
Preci	15593	μH	New	7.67	146	7.76 8.18	0	7.41	195 F	7.805.26	j			Hd	New	09 2	B.01	7.90	8.064,19	7.95 8.15	7.99	730	1		
Client:_	Project #:	Day		0	-	2	3	4	5	9	7	∞	1	Day	L	0	1	. 2	m	4	5	9	7	<b>∞</b>	
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Test Data		Lab Water (80:20)	SAMPLEID											Mean Neonates/Female = 19:0	SAMPLEID		83772	22772	22772	20882	72622	22372	A THE STATE OF THE		A CONTRACTOR OF THE PROPERTY O	Mean Neonates/Temale = 4:8	normalited - 3.0		
Brood Ceriodaphnia dubia Survival & Reproduction Test Data	Test Date:	Control / Diluent:	CION Establishment with the property of the control											Mea				a di											•
<i>aphnia dubia</i> Sur	Inlet to Res B	80% МеОН	rviv:	C D E	0 0	0 0	つ 0 0	် (၁ (၁)	ر ای ا		Q 8 1	12   12   21	anales (	12 20 Tr	Survival / Reproduction	CEDE	0 0 0	0 0 0	<u>Θ</u> Ο Ο	$ \mathcal{O}  \otimes  \mathcal{O} $	アスを	0 0		×/o   0   -   0		*/8 3    VA			
ood Ceriod	Sample ID:	Treatment		AB	<i>o</i>	0	О О	1.00	U T	۷ و	٥	21 21		72 51	A the state of the	A B	00	0 0	000	0		0 Q	9/	- 9/X	1	8/2 1/2			
	ron Cawelo	37342	Cond. Temp	(µS/cm) (°C)	123	2/40	- h02	221	್ತಿ ೭೯೯	220	218	152 hz 2		WELL Total=	Cond.	(μS/cm)	177	2/18	107	121	4%	22	122	822	1965	Total=		* - \$	
Short-Term Chronic 3	Precision Analytical - Chevron Cawelo	Fraction:	D.O.	New Old	9.6	8.9 8.4	4.9 8.2	0.2 7.6	9.8 8.2	85	269.4	e F			D.O.	New Old	9.6	9.1.9.5	10.3 8.3	9.9	1	7.8	10/93						
Shor	Precision An	15593	Ha	New Old	7.60	90,7	80.00 1-0.	818	8.07	28	96.8	ر ا ا			Hu	New Old		7.80 p.15		7.85 817	8	422	8.24	8.14			The state of the s		
	Client	Project #:	See Day		0	-	2	3	4	7	9	7	-		Dav		0		2	3	4	\frac{1}{2}	9	7	~		CONTRACTOR OF THE PROPERTY OF		

Short-Term Chronic 3-Brood Ceriodaphnia dubia Survival & Reproduction Test Data

1/8/10	80:20		SAMPLE ID										Mean Neonates/Female:= /9.5		SAMPLEID	-877CE		24622	22422	25422	22722	744.27		And the second s	Mean Neonates/Female = 15.8
Test Date:	Control / Diluent:		Control of the contro																	Address of		at Process (d)			$N   \cdot \cdot \cdot \cdot  $
		/ Reproduction			The state of the s									production											
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# Appendix H

Test Data for the Evaluation of the Recovery of Sequential C18 Column Elutions Toxicity to Fathead Minnows

Client:	Precision Analytical	Organism Log#: 4996 Age: < 48L	١
Test Material:	8/31/09 Inlet to Res B	Organism Supplier: Chesopeate	
Test ID#:	37393 Project #:15593	Control/Diluent: EPAMH	
Test Date:	14/10 Randomization:	Control Water Batch: ZTG	
•		Fraction: Lab Water Controls	

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Treatment	Temp (°C)	New	i oid l	D:0.tr	mg/L) Old	Conductivity (µs/cm)	Characters 1.500	Live Or B	ganisms C		SIGN-OFF
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80:20 (Penier)	25,Ç	701		9 0		228	6	5			Test Solution Prep
80:20 (Evian)	Z5.5	692		9.2	1	วิ <u>ง</u> น	1. 000 P 100 P	5		e di serie	New WO: PA
Hard Water		7.16		88		628	5	6	14 m		Inipation Time:
Very Hard Water	25.5	7.73		89		908	5	5	Annual States		Initiation Signoff /A
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Lab Control	25.5	8.15	81	8.7	8.2	3 Z Z	5 1	5	_		Date: ////5-//0
80:20 (Perrier)	25.5	8.22	8.19	9.3	78	2/2	5	5	- 1		Test Solution Prep
80:20 (Evian)	28.5	8.24	8.22	4.2	7.9	27,5	5	5	-		New We SG
Hard Water	255	8.36	4.38	9.8	8,0	632	5	5	-		Renewal Time: 1430
Very Hard Water	25.5	8.53	<b>%</b> .52.	1.8	8.0	919	5	5	1		Renewal Signoff
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Meter ID	33 A	PHIZ	PAIPA	£003	RDON	Econ					
Lab Control	25.0	7.85	8-04	9.8	8.8	313	5	5	_		Date: 1/14/10
80:20 (Perrier)	25.0	8.12	8.04	10.0	8.6	2.89	5	4	- 1		Test/Solution Prep:
80:20 (Evian)	25.0	8#	g.64	10.0	8.3	2 5	5	5	s <del></del> s		New WQ SY
Hard Water	25.0	8.30_	8.25	10.3	8.5	633	5	5	* <b> </b>		Renewal Time.
Very Hard Water	25.0	8.44	8.44	10.7	8.8	ា/5	5	5			Renewal Signoff
	and the same		4								oldwo: 5 <i>T</i>
Meter ID	33A	Phip	P/H12	RDT)	AD6/	Eco4				1	
Lab Control	25.1	8.10	7.89	8.8	7,5	302	5	5	_		1/17/10
80:20 (Perrier)	25.1	8.22	7.89	9,0	7.1	207	5	4	-		Test Solution Prep
80:20 (Evian)	25.1	8.18	7.82		5.7	2/3	5	5	_ *		New WQ
Hard Water	25.1	8-8-35		27	6.8	885	5	5	_		Renewal Time
Very Hard Water	25.1	8.47 % 8.96		9,9	7.2	885	5	5	_		Renewal Signoff
											Old WQ SG
Meter ID	33#	ph/4	PNY	RDOZ	RDOZ	Ec 05					

Client:	Pr	ecision Analyt	ical	Organism Log#: 49	96 Age:	<48 WS
Test Material	8/3	1/09 Inlet to R	s B	Organism Supplier:	Chesapeake	
Test ID#:	37393	Project #:	15593	Control/Diluent:	ЕРАМН	
Test Date:	1-14-10	Random	ization:	Control Water Batch:	1276	* * * * * * * * * * * * * * * * * * * *
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80:20 (Pemier)	25,4	8.24	7.85	8.8	7 4	213	Ş	4	*		Tell Salvey Tell
80:20 (Evian)	25,4	8.28	7.85	90	7.5	215	5	5	- 3		NA VIOL
Hard Water	75.4	8.32	8.06	9.3	73	619	E	5	<b>, -</b> 3		Bon Hall Time
ery Hard Water	264	8,44	8.29	9.6	7.3	884	5	8			Renuwal Sumo
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Meter ID	53A-	PHIZ	PH o q	ego!	2003	<i>(CE</i> 3					
Lab Control	25:7		4		ST-		Б	M	1		Date:
80:20 (Perrier)	25.7	K. tradision yes.	- 1	_	_		4	P			TET SILVEN TO THE TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL
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Lab Control	25.5	_	-	-	-		5	œ.			1/20/16°
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Hard Water	25.7		7.94		6.1	696	5	5			Old WO!
very Hard Water			8.26		6.4	1018	5	ゟ゙	- 1		
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Meter ID	339		7409		KP 01	EL03					

Client:	Precision Analyti	cal	Organism Log#: 49	196 Age: 248h
Test Material:	8/31/09 Inlet to Re	s B	Organism Supplier:	Chesapeate
Test ID#:	37393 Project #:	15593	Control/Diluent:	ЕРАМН
Test Date:	// /// Random	ization:	Control Water Batch:	1276
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4X	25.5	<b>348</b>		8.9		zZ),	5	5.	- 18		Initiation Tunes (A)
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4X	25-1	4			6.3	2/9	5	5	-		Renewal Time
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				636							Old WO
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Client:	Precision Analytical	Organism Log#: 499	6 Age: 248WS
Test Material:	8/31/09 Inlet to Res B	Organism Supplier:	Chesayeake
Test ID#:	37393 Project #: 15593	Control/Diluent:	ЕРАМН
Test Date:	1-14-10 Randomization:	Control Water Batch:	1274
1.1		Fraction:	50% MeOH

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Treatment	Temps	new )	H old	D.O. new	(mg/L)	Conductivity (µs/cm)	Ā	#Elve 0	rganism C	Ď	SIGN-OFF
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IX	2 <u>C</u> Y	8,30	7.77	10.1	5.9	Z89	5	É			TAN SAME POPE
2 <b>X</b>	<b>2</b> \$.4	8.21	7.81	9.6	7.1.	243	5	- 4	7_		Yes NO JOE
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Client:	Precision Analytical	Organism Log#:	1996 Age: <48	4
Test Material:	8/31/09 Inlet to Res B	Organism Supplier:	Cherapeat	
Test ID#:	37393 Project #: 15593	Control/Diluent:	ЕРАМН	
Test Date: 1	/Y//O Randomization:	Control Water Batch:	186	
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Test Material:	8/3	1/09 Inlet to R		Organism Supplier:	_ che	saceake	Cilh,		
Test ID#:	37393	Project #:	15593	Control/Diluent:		ЕРАМН			
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Client:	Precision Analytical		Organism Log#:	4996	Age: <484	
Test Material:	8/31/09 Inlet to Res B		Organism Supplier:	Cu	isapente	_
Test ID#:	37393 Project #:155	93	Control/Diluent:		EPAMH	
Test Date:	/14/10 Randomization:	انت	Control Water Batch:	15,	76	
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Client:	Pre	cision Analyt	ical	Organism Log#:	4196 Age:	_<48 hrs
Test Material:		1/09 Inlet to R	es B	Organism Supplier:	Chesa	
Test ID#:	37393	Project #:	15593	Control/Diluent;	EPAMH	
Test Date:	1-14-10	Randon	nization:	Control Water Batch:	1276	
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Test ID#:	37393 Pro	oject#:	15593	Control/Diluent:		EPAMH	A H	
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Test ID#:_	37393	Project #:	15593	Control/Diluent:	EPAMH	
Test Date:	1-14-10	Random	ization:	Control Water Batch:	1276	
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Client	Precision Analytical	Organism Log#: 499	G Age: < YES
Test Material:	8/31/09 Inlet to Res B	Organism Supplier: (	esqueake
Test ID#:	37393 Project #: 15593	Control/Diluent:	ЕРАМН
Test Date:	1/19/10 Randomization:	Control Water Batchl 276	
		Fraction:	95% McOH

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Client:	Pro	ecision Analyt	ical	Organism Log#: 4996	Age:	£4865
Test Material:	8/3	1/09 Inlet to R	es B	Organism Supplier:	Chesaprake	
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Test Date:	1-14-10	Randon	nization:	Control Water Batch:	1276	
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Client:	Precision Analytical	Organism Log#:	Age: < 48 h		
Test Material:	8/31/09 Inlet to Res B	Organism Supplier:	Chesq	pealle	
Test ID#:	37393 Project #: 15593	Control/Diluent:	<u> Yang ang ang ang ang ang ang ang ang ang </u>	ЕРАМН	
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